

Citations to the CAPTAIN Toolbox

C. J. Taylor

Research Note 2019—2

Engineering Department, Lancaster University
Bailrigg, Lancaster LA1 4YR, UK
c.taylor@lancaster.ac.uk

27th September 2019 (v1.0)

Introduction

The CAPTAIN Toolbox is a collection of MATLAB functions for system identification, time series analysis, forecasting and control (Taylor et al. 2007). The current developers are Peter Young, Wlodek Tych and James Taylor, Lancaster University, UK. An additional substantial co-author is Diego Pedregal, Castilla-La Mancha University, Spain. Paul McKenna and Renata Romanowicz contributed to some functions whilst at Lancaster University.

This document lists articles that cite CAPTAIN via the references in Table 1. Articles co-authored by Taylor, Tych, Young and/or Pedregal are excluded (of course, they have used and cited their own toolbox many times). Table 2 lists citing articles that do not include any authors from Lancaster University or KU Leuven (where several academics are long time CAPTAIN users). Table 3 lists articles that include at least one author from KU Leuven. Table 4 lists articles with Lancaster co-authors (still excluding Taylor, Tych, Young and Pedregal).

CAPTAIN was explicitly used to generate results in most of the citing articles. In these cases, some of the relevant algorithms are indicated in the final column. Here, ‘VFLUX’ (Lautz 2012) is a non-Lancaster software package that uses the CAPTAIN DHR function; ‘CONTSID’ (Padilla et al. 2015) is a rival toolbox, sometimes used alongside CAPTAIN; ‘Cites TDC’ refers to a citation only to the book on True Digital Control (Taylor et al. 2013) and not directly for CAPTAIN; and ‘No citation’ implies Google Scholar or Scopus has its wired crossed. In Table 2, ‘Essam’, ‘Jafa’ and ‘Renata’ refer to former Lancaster researchers who continue to use the Toolbox. Finally, in some cases, the Toolbox was not used by the authors and is cited only as e.g. complementary research (‘Citation only’).

Table 1: Toolbox references together with number of Google Scholar citations at 20–09–2019.

Reference	Citations	Type
Taylor et al. (2007)	242	Journal article
Young et al. (2010)	60	Empty placeholder on lancs.eprints.ac.uk
Taylor et al. (2013)	42	Book on True Digital Control (TDC)
Pedregal et al. (2007)	30	Handbook available from the authors
Young et al. (2009)	23	Conference Proceedings
Young & Taylor (2012)	13	Conference Proceedings
Young et al. (2004)	11	Appears only as a citation on Google Scholar

Citations to the CAPTAIN Toolbox

Table 2: Worldwide authors citing CAPTAIN.

Reference	Address	Application	Functions
Bhujwala (2019)	Lorraine France	Identification	DHR
Briggs et al. (2019)	US Geological Survey, Berkeley	Beaver ponds	VFLUX
Mendoza et al. (2019)	Cuenca Ecuador	Rainfall	DHR, KF/FIS
Ratmaya et al. (2019)	CEDEK France	River phosphorus	Citation only
Šreng et al. (2019)	Osijek Croatia	Bacteria in aquifer	RIV
Tötterman (2019)	Abo Finland	Robust control	Cites TDC only?
Kharaji et al. (2019)	Zahedan Iran (Jafar)	Distillation control	RIV, cites TDC
Armenise et al. (2018)	Pisa Italy	Identification software	Citation only
Briggs et al. (2018)	US Geological Survey	Groundwater	VFLUX
Coluccio (2018)	Canterbury New Zealand	Groundwater/surface	VFLUX
Duan et al. (2018)	CAS China, California USA	River water quality	DHR
García (2018)	Ciudad Real, Pedregal student	SSPACE toolbox	Citation only
Gavin et al. (2018)	Washington, California USA	Low colostrum in cattle	CCF
Grandemange (2018)	Lorraine France	Traffic (In French)	DHR
Juarez et al. (2018)	Zacatecas Mexico	Hydraulic conductivity	VFLUX
Moghadam et al. (2018)	Zahedan Iran	Process quality control	DARX
Pina et al. (2018)	La Habana Cuba	Pharmacy (In Spanish)	CONTSID, citation only?
Rocabado (2018)	Santiago de Chile	Hydrology (In Spanish)	RIV, SDP, citation only?
Sayed et al. (2018)	Cairo Egypt (Essam)	Robotics	SDP, RIV
Sobolic et al. (2018)	Michigan USA, Jordon	Control	Citation only
Yang et al. (2018)	Ministry Ag. China, San Diego	Air pollution	DHR
Tursinbaeva & Adil. (2018)	WEBSITE DOWN	Temperature control	Cites TDC
Janot (2018)	Toulouse France	Robotics	RIV, PIP, cites TDC

Continued on next page

Table 2 – *Continued from previous page*

Reference	Address	Application	Functions
Wolski (2018)	Liverpool UK	Electron storage rings	Needs login, cites TDC
Haredasht et al. (2018)	California (ex-Leuven)	Cattle	DHR
Alegria & Bottura (2017)	Campinas Brazil	Hydraulics, INCA	ARX, SDP
Bhujwalla et al. (2017)	Lorraine France, Nancy, Lux.	Network traffic	ARSPEC, DHR
Bidar et al. (2017)	Zahedan Iran (Jafar)	Debutanizer column	SDARX
Brunot et al. (2017)	Toulouse France	Robotics	IRWSM
Brunot (2017)	Toulouse France	Robotics	IRWSM
Clay (2017)	North Carolina USA	Groundwater	VFLUX
Goudjil (2017)	Normandy France	Robotics (in French)	SDARX, CONTSID
Grandemange et al. (2017 <i>a</i>)	Lorraine France, Nancy, Lux.	Network traffic	ARSPEC, DHR
Grandemange et al. (2017 <i>b</i>)	Lorraine France, Nancy, Lux.	Probably same article?	ARSPEC, DHR
Hamed et al. (2017)	Cairo, Egypt (Essam)	Bitumen tank	RIV
Kikuchi & Ferré (2017)	Arizona USA	Goundwater	VFLUX
Lu, Yao & Shu (2017)	Nanjing Hydro Bureau China	Surface/groundwater	VFLUX
Lu, Chen & Su (2017)	Nanjing Hydro Bureau China	Surface/groundwater	DHR
Macaia (2017)	Lisbon Portugal	(In Portuguese)	No citation?
Meresa et al. (2017)	Poland (Renata)	River catchments	DHR
Pan et al. (2017)	Nanjing China, SK Canada	Water balance	DLR
Roussel (2017)	Strasbourg France	Robotics (In French)	Unclear if used
Zhou et al. (2017)	Richland USA, Nanjing China	Hydrologic exchange	DHR
Ogun et al. (2017)	Coventry, Akwa Nigeria	pH control	Cites TDC only?
Alegria & Bottura (2016)	Campinas Brazil	Hydraulics, INCA	Citation only
Alegria et al. (2016)	Campinas Brazil	(In Spanish)	ARX, FIS
De Pace & Weber (2016)	Claremont USA	Econometrics	FIS
Dupas et al. (2016)	Leipzig Magdeburg Germany	River nitrates	DHR, IRW
Halliday et al. (2016)	Reading, Oxon, Env. Agency	River algal growth	DHR

Continued on next page

Table 2 – *Continued from previous page*

Reference	Address	Application	Functions
Marsili-Libelli (2016)	Florence Italy	Environmental processes	No Access
Nasir (2016)	Melbourne Australia	Water control	SDP, CONSID
Reeves & Hatch (2016)	Massachusetts USA	Surface/groundwater	VFLUX
Ungvári et al. (2016)	Debrecen Hungary, Canada	Cells? Lasers?	No citation?
Xu et al. (2016)	Zhejiang China	Carbon flux	DLR
Recido (2016)	Manila Philippines	Social protection	No citation? (TDC)
Gharehbaghi & Sadeghi (2016)	Zahedan Iran (Jafar)	Catalyst deactivation	Cites TDC for SDP
Khalilipour et al. (2016)	Zahedan Iran (Jafar)	Oil distillation	Cites TDC for NMSS etc.
Alegria et al. (2015 <i>b</i>)	Campinas Brazil	SDP research	FIS, SDP
Alegria et al. (2015 <i>a</i>)	Campinas Brazil	INCA toolbox	FIS, SDP, comparison
Nasir & Weyer (2015)	Melbourne Australia	River modelling	SDP
Castillo-Manzano et al. (2015)	Seville Spain	Rail/air transport	FIS, DLR
Garnier (2015)	CRAN France	CONSYD toolbox	CONTSID, citation only
Ha & Welsh (2015)	Newcastle Australia	Identification, YIC	CONTSID, citation only
Hao et al. (2015)	China, Greece, USA	Water balance	DHR
Karamuz et al. (2015)	Poland (Renata), Twente	River flow	RIV
Minaudo et al. (2015)	Tours France, Paris	River chemistry	DHR
Otieno & Ndiritu (2015)	Pretoria RSA	Water quality	RIV
Padilla et al. (2015)	CRAN France	CONTSID toolbox	CONSID, citation only
Pagendam & Percival (2015)	Queensland Aust., Washington	River/tidal flow	DHR
Park et al. (2015)	Hydro. Survey Center Korea	Evapotranspiration	DLR
Rau et al. (2015)	NSW Australia, Birmingham	River sediment	DHR
Rebai et al. (2015)	El Harrach Algeria, Troyes	RIM toolbox	Citation only
Romanowicz & Osuch (2015)	Poland (Renata)	Flood forecasting	RIV
Roulin & Vannitsem (2015)	Brussels Belgium	Hydrological forecasting	RIV
Roussel et al. (2015)	Toulouse France	Sea levels	DHR

Continued on next page

Table 2 – *Continued from previous page*

Reference	Address	Application	Functions
Su et al. (2015) Dozein et al. (2015) Ansari et al. (2015) Tao et al. (2015) Unknown (2015) Jamali et al. (2015)	Nanjing China Tehran Iran Tehran Iran Ningbo China ? Zahedan Iran (Jafar)	Hyporheic exchange Voltage stability Voltage stability Process control (In Chinese?) Engine control	DHR Not clear why cites TDC Not clear why cites TDC Cites TDC only DHR RIV, TDC
Bolea et al. (2014) Ha & Welsh (2014) Hamed et al. (2014) Ma et al. (2014) Ninness (2014) Quichimbo & Vázquez (2014) Romanowicz & Kar. (2014) Shaban & Nada (2014) Wu et al. (2014) Zheng & Chen (2014) Laycock et al. (2014)	Barcelona Spain NSW Australia Helwan Egypt (Essam) Beijing China, Sweden Newcastle Australia Cuenca Ecuador Poland (Renata) Helwan Egypt (Essam) Beijing Singapore Auckland New Zealand	Irrigation control Identification, SRIVC Bitumen Tank Wastewater System Identification (In Spanish?) Climate? (In Polish) FPGA board Forest canopy Stock market, KF/ML Corrosion	Citation only Citation only RIV Citation only No access RIV RIV SDP DHR? No access Citation only? No citation (TDC)
Aliane et al. (2013) Zheng & Chen (2013) Gariglio et al. (2013) Gordon (2013) Haddad et al. (2013) Halliday et al. (2013) Hatzopoulos & Hab. (2013) Hitzemann (2013) Ionescu (2013)	Madrid Spain Singapore US Forest Service, Rocky M. Syracuse USA? Oran Algeria Reading, CEH UK, Switz. Samos Greece, City Coventry UK CERTES France	Using Excel Stock market Hyporheic exchange Groundwater/surface Sea level River nitrates Worldwide mortality Control (In French)	Citation only No access (contents only) VFLUX VFLUX, ARX, etc. UCM, DHR DHR DLR SDP, FIS, TDC Citation only?

Continued on next page

Table 2 – *Continued from previous page*

Reference	Address	Application	Functions
Luce et al. (2013)	Rocky Mountain USA	Streambeds	DHR
Maheswaran & Khosa (2013)	Delhi India	Groundwater	DAR
Markovsky (2013)	Brussels Belgium	Identification software	No citation?
Maruta & Sugie (2013)	Kyoto Japan	Control	RIVC
de Pace (2013)	Claremont USA	Gross Domestic Product	KF/FIS
Quichimbo et al. (2013)	Cuenca Ecuador	(In Spanish?)	RIV
Zajíc (2013)	Coventry UK	Heating control	RIVC, IRWSM, TDC
Hjalmarsson & Sjöberg (2012)	Stockholm Sweden	Ident. software	Citation only
Kiczko & Ermolieva (2012)	Warsaw Poland, Austria	Reservoir flow	RIV
Lautz (2012)	NY USA	Hydrogeology	VFLUX, DHR
Lautz & Ribaudó (2012)	NY USA	Hydrogeology	VFLUX, DHR
Peralta (2012)	Spain	(In Spanish)	Citation only?
Romanowicz (2012)	Poland (Renata)	Water quality	RIV
Vaughan & McIntyre (2012)	Env. Agency, Imperial	Flood forecasting	RIV
Vogt et al. (2012)	Switzerland, Germany	Groundwater	DHR
von Asmuth et al. (2012)	Delft, Utrecht	Hydrogeology	Citation only
Wagener & McIntyre (2012)	Pennsylvania USA, Imperial	Catchment classification	RIV
Wheater et al. (2012)	Imperial UK	Flood risk	RIV? SDP?
Xiaolian (2012)	Xiamen China	Stock market	Citation only?
Zajic et al. (2012 <i>b</i>)	Coventry UK	Industry air unit	RIV
Zajic et al. (2012 <i>a</i>)	Coventry UK	Industrial temperature	RIV
Zheng & Chen (2012)	Singapore	Stock market	Citation only?
Unknown (2012)	?	(In Chinese?)	?
Ciavatta & Pastres (2011)	Plymouth, Venice Italy	Biogeochemical	DHR
Horn & Schulz (2011)	Munich Germany	Biogeosciences	DLR, SDP
Horn (2011)	Munich	Biogeosciences	DLR, SDP

Continued on next page

Table 2 – *Continued from previous page*

Reference	Address	Application	Functions
Kiczko & Napiórkowski (2011)	Warszawa Poland	Reservoir control	RIV
Liu et al. (2011)	Penrith Australia, Beijing	Identification	Citation only
Meng, Guan & Xie (2011)	Xian China	CFD modelling	Cites others use of RIV?
Meng, Guan & Yan (2011)	Xian China	Fluid flow	RIV
de Pace (2011)	Claremont USA	Gross domestic product	DLR
Prieto (2011)	Madrid	Time series	DHR, citation only?
Romanowicz & Osuch (2011)	Poland (Renata)	Water management	RIV
Sampson et al. (2011)	Seattle USA, Sweden	Air quality	No citation?
Suarez (2011)	Florida USA	Neuronal models	DLR, comparison only
Unknown (2011)	?	(In Greek?)	?
Bennett et al. (2010)	Canberra Australia	Review paper	Citation only?
Bo et al. (2010)	Beijing, Maryland USA	Spectrometer MODIS	DHR
Gasser & Wiberg (2010)	Unknown	Identification	No access
Jiang et al. (2010)	Beijing, Maryland USA	Leaf area index	DHR or citation only?
Lautz et al. (2010)	NY USA (VFLUX)	Hyporheic exchange	DHR
Maheswaran & Khosa (2010)	Delhi India	CO2 levels	ARMIMA, comparison
McIntyre & Marshall (2010)	Imperial UK, Bangor	Catchment runoff	RIV
Pace (2010)	John Hopkins Maryland	Macroeconomics	DLR
Quichimbo (2010)	Spain	(In Spanish)	RIV, DLR
Sedano & Corchado (2010)	Burgos, Spain	Heat fluxes	Citation only?
Sedano & Curiel (2010)	Burgos, Spain	Thermal insulation	Citation only?
Victor (2010)	Bordeaux	(In French)	(MicroCapt) Cite only
Vogt et al. (2010)	Tubingen Germany, Switz.	Riverbed temperature	DHR
Yanar & Akyürek (2010)	Unknown	ANN	No access?
Unknown (2010)	?	(In Chinese?)	DHR
Begon et al. (2009)	Liverpool UK, Aberdeen	Field voles	No access

Continued on next page

Table 2 – *Continued from previous page*

Reference	Address	Application	Functions
Belsley & Kont. (2009) Hong et al. (2009) Kwon et al. (2009) Ljung (2009) Meng et al. (2009) Ochieng & Otieno (2009) Pollock (2009 <i>a</i>) Pollock (2009 <i>b</i>) Romanowicz et al. (2009) Sun et al. (2009) Unknown (2009)	Boston USA, Queen Mary Seoul Korea Seoul Korea Linkoping Sweden Xian China Pretoria South Africa Unknown Unknown Poland (Renata) Gu and Seward 2012? ?	Econometrics Flux (In Korean) Evapotrans (In Korean) Identification CFD, control Rainfall flow Economic trends Survey paper Catchment Google confusion (In Chinese?)	No access (front only) Unclear DLR? RIV, CONTSID RIV, PRBS RIV No access No access RIV No citation ?
Gu (2008) Kiczko (2008) Lauzon & Lence (2008) Malti et al. (2008) Trapero (2008) Svoboda et al. (2008)	Suzhou China 1 Laxenburg Austria Vancouver Canada CRAN France Ciudad Real (Pedregal) Vienna Austria	Lancaster LUCIE Reservoir Runoff Identification (In Spanish) 3G networks	RIV, PIP RIV TVP, citation only? CONTSID, citation only DLR etc. DHR
Amisigo et al. (2007) Garnier et al. (2007) Levy et al. (2007) Pollock (2007 <i>b</i>) Pollock (2007 <i>a</i>) Stremme (2007)	Accra Ghana, Bonn CRAN France Sensis Corporation Leicester UK Leicester UK Germany	Riverflow (In French) Taxiing aircraft Filtering Economics, STAMP Climate (In German)	SDP Citation only DLR etc. No citation? Citation only DLR
Alavi et al. (2006) Amisigo (2006) Kioutsoukis et al. (2006)	Guelph Canada CSIR Ghana, Bon, Delft Xanthi Greece	Evapotranspiration Riverflow Precipitation	DLR, SDP SDP DLR, DHR

Continued on next page

Table 2 – *Continued from previous page*

Reference	Address	Application	Functions
Lambertz et al. (2006)	Madrid Spain	Dispersion in rivers	RIV
Pollock (2006 <i>b</i>)	Queen Mary UK	Econometrics	Citation only
Pollock (2006 <i>a</i>)	Queen Mary UK	Introduction	Citation only
Terpstra & Meijer (2006)	Amsterdam	Traffic flow	DHR
Hsieh (2005)	Taichun TW	Hand tool	No citation
Vigiak (2005)	Wageningen	Erosion	SDP
Zhu & Paul (1997)	NJ USA	Neural networks	No citation
Alegria & Bottura (n.d.)	Campinas Brazil	(In Spanish?)	ARX, SDP
Ochieng & Otieno (n.d.)	Pretoria RSA	Rainfall river	RIV, SDP
Ochieng et al. (n.d.)	Pretoria RSA	Rainfall river	RIV, SDP
Usevich & Markovsky (n.d.)	CRAN France, Brussels	Software	Citation only
Unknown (n.d.)	?	(In Chinese?)	?

Table 3: KU Leuven authors citing CAPTAIN.

Reference	M3-BIORES Academic	Application	Functions
Peña Fernández et al. (2019 <i>a</i>)	Aerts	Bodyweight	RIV
Buekers et al. (2019)	Aerts	Pulmonary disease	RIV
Peña Fernández et al. (2019 <i>b</i>)	Norton, Vranken, Berckmans	Pig growth	DTF, DLR
Youssef et al. (2019)	Aerts	NEED PDF	Cites TDC book
Bovet-Carmona et al. (2018)	Aerts	Synaptic plasticity	RIV
Adeyemi et al. (2018 <i>b</i>)	Norton	Lettuce transpiration	RIV
Peña Fernández et al. (2018 <i>a</i>)	Berckmans	Broiler growth	RIV
Norton et al. (2018)	Norton, Berckmans	Horse wearables	RIV

Continued on next page

Table 3 – *Continued from previous page*

Reference	M3-BIORES Academic	Application	Functions
Adeyemi et al. (2018a)	Norton	Lettuce transpiration	RIV
Peña Fernández et al. (2018b)	Norton, Berckmans	Particulates/Broiler	RIV
Peña Fernández et al. (2018)	Norton, Vranken, Berckmans	Pig growth	RIV, DLR
Peña Fernández et al. (2017)	Berckmans	Particulates/Broiler	RIV
Wolfs & Willems (2017)	Wolf, Willems (not M3-Biores)	River flow	RIV
Berckmans & Exadaktylos (2017)	Berckmans	PATENT	RIV
Tambuyzer et al. (2017)	Berckmans, Aerts	Heart rate	IRW
Haredasht et al. (2016)	Berckmans, Aerts	Bank voles	RIV
Tong et al. (2016)	Berckmans	Chicken eggs	RIV
Peña Fernández et al. (2016)	Norton, Vranken, Berckmans	Broiler quality	IRW
Lambrechts (2016)	KU Leuven PhD	Bioreactors	Various DBM
Topalovic et al. (2015)	Berckmans, Aerts	Pulmonary disease	RIV
Peña Fernández et al. (2015)	Vranken, Berckmans	Broiler behaviour	RIV
D’Haene et al. (2015)	Aerts	Finger cooling	RIV
Wolfs et al. (2015)	Wolf, Willems (not M3-Biores)	River flow	RIV, SDP
Lambrechts et al. (2014)	Aerts	NEED PDF	NEED PDF
Youssef et al. (2014b)	Berckmans	Chicken embryo	TVP
Youssef et al. (2014a)	Berckmans	Chicken embryo	RIV
Wolfs & Willems (2014)	Wolf, Willems (not M3-Biores)	Discharge curves	SDP
Lefever et al. (2014)	Berckmans, Aerts	Cyclist heart	RIV
Aerts et al. (2014)	Aerts	Critical illness	Citation only?
Lule et al. (2014)	Berckmans	Ventilation	NEED PDF
Marko et al. (2014)	Aerts, Berckmans	Pulmonary disease	RIV
Topalovic et al. (2014)	Berckmans	Pulmonary disease	RIV
Tambuyzer et al. (2014)	Berckmans, Aerts	Pig monitoring	IRW
Wolfs et al. (2013)	Wolf, Willems (not M3-Biores)	Sewers	RIV

Continued on next page

Table 3 – *Continued from previous page*

Reference	M3-BIORES Academic	Application	Functions
Wolfs & Willems (2013)	Wolf, Willems (not M3-Biores)	Floodplains	IRW, citation only?
Tambuyzer et al. (2012)	Berckmans, Aerts	Pig monitoring	NEED PDF
Ntoula et al. (2012)	Berckmans	Greenhouses	NEED PDF
De Bruyne et al. (2012)	Berckmans, Aerts	Cycle helmets	RIV
Volkaerts et al. (2012)	Berckmans	Greenhouses	NEED PDF
Haredasht et al. (2011)	Berckmans, Aerts	Nephropathia epidemica	RIV
De Bruyne et al. (2010)	Berckmans, Aerts	Cycle helmets	RIV
Silva et al. (2009)	Berckmans, Aerts	Pig cough	RIV
Thanh et al. (2008)	Berckmans, Vranken	Room temperature	RIV
Aerts et al. (2008)	Berckmans, Aerts	Horse heart	RIV

Table 4: Lancaster authors (excluding the developers).

Reference	Academic	Application	Functions
Page et al. (2018)	Page, Beven (LEC)	Phytoplankton	RIV
Deeprise (2018)	Wynn (LEC PhD)	Climate	DHR
Stefaniak (2016)	Jarvis (LEC MSc)	Macroecology	IRWSM
Durance et al. (2016)	Chappell (LEC)	Biodiversity	No Access
Smith (2015)	Wynn (LEC PhD)	Holecen climate	DHR
Trapero et al. (2015)	Kourentzes (Management)	Solar irradiation	DHR
Jones & Chappell (2014)	Chappell (LEC)	Streamflow, hydrogen	RIV, DTF
Ampadu et al. (2013)	Chappell (LEC)	Riverflow review	Citation only
Cross & Ma (2013)	Ma (Engineering)	Wind turbines	NEED PDF, SDP?
Zhang et al. (2013)	Ma (Engineering)	Wind turbines	RIV, PIP

Continued on next page

Table 4 – *Continued from previous page*

Reference	Academic	Application	Functions
Leedal et al. (2013)	Beven (LEC)	Flood forecasting	RIV, SDP
Gu et al. (2012)	Ma (Engineering)	Excavator control	RIV, PIP
Gu & Seward (2012)	Seward (Engineering)	Excavator control	RIV, PIP
Beven (2012)	Beven (LEC)	Rainfall runoff book	Citations only
Halliday et al. (2012)	Rowland (CEH)	Water quality	IRW, DHR
Ockenden & Chappell (2011)	Chappell (LEC)	Runoff	RIV
Trapero et al. (2011)	Fyldes (Management)	Judgmental Forecasts	SDP
Gu et al. (2011)	Ma (Engineering)	Excavator control	RIV, PIP
Gu & Seward (2009)	Seward (Engineering)	Excavator control	RIV, PIP
Romanowicz et al. (2007)	Romanowicz (then LEC)	Flood forecasting	SDP
Beven (2007)	Beven (LEC)	Environmental modelling	NEED PDF
Keery et al. (2007)	Binley (LEC)	Groundwater/surface	DHR

Toolbox references (Table 1)

- Pedregal, D. J., Taylor, C. J. & Young, P. C. (2007), *System Identification, Time Series Analysis and Forecasting. The Captain Toolbox Handbook*, Lancaster University.
- Taylor, C. J., Pedregal, D. J., Young, P. C. & Tych, W. (2007), ‘Environmental time series analysis and forecasting with the Captain Toolbox’, *Environmental Modelling and Software* **22**(6), 797–814.
- Taylor, C. J., Young, P. C. & Chotai, A. (2013), *True Digital Control: Statistical Modelling and Non–Minimal State Space Design*, John Wiley and Sons.
- Young, P. C. & Taylor, C. J. (2012), Recent developments in the Captain toolbox for Matlab, in ‘16th IFAC Symposium on System Identification (SYSID)’, Brussels, Belgium.
- Young, P. C., Taylor, C. J., Tych, W., Pedregal, D. J. & McKenna, P. G. (2004), ‘The Captain Toolbox, Centre for Research on Environmental Systems and Statistics, Lancaster University, UK’, Reference to a Research Centre (now obsolete) at Lancaster University that appears only as a citation on Google Scholar.
- Young, P. C., Taylor, C. J., Tych, W., Pedregal, D. J. & McKenna, P. G. (2010), ‘The Captain Toolbox’, Empty placeholder on eprints.lancs.ac.uk, Lancaster University, Lancaster.
- Young, P. C., Tych, W. & Taylor, C. J. (2009), The Captain Toolbox for Matlab, in ‘15th IFAC Symposium on System Identification (SYSID)’, Saint–Malo, France.

Worldwide authors (Table 2)

- Alavi, N., Warland, J. S. & Berg, A. A. (2006), ‘Filling gaps in evapotranspiration measurements for water budget studies: Evaluation of a Kalman filtering approach’, *Agricultural and Forest Meteorology* **141**(1), 57–66.
URL: <https://www.sciencedirect.com/science/article/pii/S0168192306002814>

- Alegria, E. J. & Bottura, C. P. (2016), ‘MIMO ARX-SDP model estimation proposal and application to a hydraulic system’, *2016 IEEE Conference on Control Applications, CCA 2016* pp. 1001–1006.
URL: <https://ieeexplore.ieee.org/abstract/document/7587944/>
- Alegria, E. J. & Bottura, C. P. (2017), ‘Real-time identification of ARX-SDP model using a rectangular moving window’, *ICAC 2017 - 2017 23rd IEEE International Conference on Automation and Computing: Addressing Global Challenges through Automation and Computing* .
- Alegria, E. J. & Bottura, C. P. (n.d.), Propuesta para modelar series temporales altamente no lineares con estructura ARX-SDP, Technical report.
- Alegria, E. O. J., Teixeira, H. T. & Bottura, C. P. (2015a), ‘Off-line state-dependent parameter models identification using simple fixed interval smoothing’, *ICINCO 2015 - 12th International Conference on Informatics in Control, Automation and Robotics, Proceedings* **1**, 336–341.
URL: <https://ieeexplore.ieee.org/abstract/document/7350486/>
- Alegria, E. O. J., Teixeira, H. T. & Bottura, C. P. (2015b), ‘State-parameter dependency estimation of stochastic time series using data transformation and parameterization by support vector regression’, *ICINCO 2015 - 12th International Conference on Informatics in Control, Automation and Robotics, Proceedings* **1**, 342–347.
URL: <https://ieeexplore.ieee.org/abstract/document/7350487/>
- Alegria, E. O. J., Teixeira, H. T. & Bottura, C. P. (2016), Estimaco On-Line da dependncia parametro-estado em modelos ARX-SDP, Technical report.
URL: <https://www.researchgate.net/publication/301202348>
- Aliane, N., Fernandez, J. & Bemposta, S. (2013), ‘A spreadsheet method for continuous-time model identification’, *Measurement: Journal of the International Measurement Confederation* **46**(1), 680–687.
URL: <https://www.sciencedirect.com/science/article/pii/S02632224112003466>
- Amisigo, B. A. (2006), *Modelling Riverflow in the Volta Basin of West Africa: a Data-Driven Framework*.

- Amisigo, B. A., Van De Giesen, N. & Andah, W. E. (2007), 'A hybrid metric-conceptual (HMC) model for monthly riverflow prediction in the semi-arid volta basin of West Africa', *International Journal of River Basin Management* **5**(1), 57–68.
URL: <http://www.tandfonline.com/doi/abs/10.1080/15715124.2007.9635306>
- Ansari, J., Dozein, M. & Bahramsari, A. (2015), 'A Novel Approach for Monitoring of Voltage Stability Margin subsequent to Observability Analysis: a Practical System Case Study', *Citeseer* .
URL: <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.996.8405&rep=rep1&type=pdf>
- Armenise, G., Vaccari, M., Di Capaci, R. B. & Pannocchia, G. (2018), 'An Open-Source System Identification Package for Multivariable Processes', *2018 UKACC 12th International Conference on Control, CONTROL 2018* pp. 152–157.
URL: <https://ieeexplore.ieee.org/abstract/document/8516791/>
- Begon, M., Telfer, S., Burthe, S., Lambin, X., Smith, M. J. & Paterson, S. (2009), 'Effects of abundance on infection in natural populations: Field voles and cowpox virus', *Epidemics* **1**(1), 35–46.
URL: <https://www.sciencedirect.com/science/article/pii/S1755436508000054>
- Belsley, D. A. & Kont. (2009), *Handbook of Computational Econometrics*, John Wiley & Sons, Ltd, Chichester, UK.
URL: <http://doi.wiley.com/10.1002/9780470748916>
- Bennett, N. D., Croke, B. F., Jakeman, A. J., Newham, L. T. & Norton, J. P. (2010), Performance evaluation of environmental models, Technical report.
URL: <https://scholarsarchive.byu.edu/iemssconference/2010/all/247>
- Bhujwala, Y. (2019), 'Nonlinear system identification with kernels'.
URL: <https://hal.univ-lorraine.fr/tel-01755007/document>
- Bhujwala, Y., Grandemange, Q., Gilson, M., Laurain, V. & Gnaedinger, E. (2017), 'How We Spend Our Time Online: Predicting Network Traffic Using System Identification', *IFAC-PapersOnLine* **50**(1), 14125–14130.
URL: <https://www.sciencedirect.com/science/article/pii/S2405896317324795>

- Bidar, B., Sadeghi, J., Shahraki, F. & Khalilipour, M. M. (2017), ‘Data-driven soft sensor approach for online quality prediction using state dependent parameter models’, *Chemometrics and Intelligent Laboratory Systems* **162**, 130–141.
URL: <https://www.sciencedirect.com/science/article/pii/S0169743916302891>
- Bo, J., Shun-lin, L., Jin-di, W. & Zhi-qiang, X. (2010), Analysis and prediction of MODIS LAI time series with Dynamic Harmonic Regression model, Technical Report 2007.
URL: <http://www.es.lanacs.ac.uk/>
- Bolea, Y., Puig, V. & Blesa, J. (2014), ‘Linear parameter varying modeling and identification for real-time control of open-flow irrigation canals’, *Environmental Modelling and Software* **53**, 87–97.
URL: <http://dx.doi.org/10.1016/j.envsoft.2013.10.028>
- Briggs, M. A., Lane, J. W., Snyder, C. D., White, E. A., Johnson, Z. C., Nelms, D. L. & Hitt, N. P. (2018), ‘Shallow bedrock limits groundwater seepage-based headwater climate refugia’, *Limnologica* **68**, 142–156.
URL: <https://www.sciencedirect.com/science/article/pii/S0075951117300592>
- Briggs, M. A., Wang, C., Day-Lewis, F. D., Williams, K. H., Dong, W. & Lane, J. W. (2019), ‘Return flows from beaver ponds enhance floodplain-to-river metals exchange in alluvial mountain catchments’, *Science of the Total Environment* **685**, 357–369.
URL: <https://www.sciencedirect.com/science/article/pii/S0048969719324246>
- Brunot, M. (2017), Identification of rigid industrial robots A system identification perspective, PhD thesis.
- Brunot, M., Janot, A. & Carrillo, F. (2017), ‘State Space Estimation Method for the Identification of an Industrial Robot Arm’, *IFAC-PapersOnLine* **50**(1), 9815–9820.
URL: <https://doi.org/10.1016/j.ifacol.2017.08.892>
- Castillo-Manzano, J. I., Pozo-Barajas, R. & Trapero, J. R. (2015), ‘Measuring the substitution effects between High Speed Rail and air transport in Spain’, *Journal of Transport Geography* **43**, 59–65.
URL: <https://www.sciencedirect.com/science/article/pii/S0966692315000101>

- Ciavatta, S. & Pastres, R. (2011), 'Exploring the long-term and interannual variability of biogeochemical variables in coastal areas by means of a data assimilation approach', *Estuarine, Coastal and Shelf Science* **91**(3), 411–422.
URL: <http://dx.doi.org/10.1016/j.ecss.2010.11.006>
- Clay, K. (2017), Temporal Variation in Groundwater and VOC Flux through a Sandy Streambed, Wilson, North Carolina., PhD thesis.
URL: <https://repository.lib.ncsu.edu/bitstream/handle/1840.20/34791/etd.pdf?sequence=1>
- Coluccio, K. (2018), 'A Comparison of Methods for Estimating Groundwater-Surface Water Interactions in Braided Rivers'.
URL: <https://ir.canterbury.ac.nz/handle/10092/15390>
- de Pace, P. (2011), 'GDP Growth Predictions Through the Yield Spread. Time-Variation and Structural Breaks', *SSRN Electronic Journal* .
URL: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=1401752
- de Pace, P. (2013), 'Gross domestic product growth predictions through the yield spread: Time-variation and structural breaks', *International Journal of Finance and Economics* **18**(1), 1–24.
URL: <http://doi.wiley.com/10.1002/ijfe.453>
- De Pace, P. & Weber, K. D. (2016), 'The time-varying leading properties of the high yield spread in the United States', *International Journal of Forecasting* **32**(1), 203–230.
URL: <https://www.sciencedirect.com/science/article/pii/S0169207015000473>
- Dozein, M. G., Ansari, J., Soleymanifar, M. & Zafari, L. (2015), 'An observability based monitoring scheme for voltage stability margin: A practical system case study', *20th Electrical Power Distribution Conference, EPDC 2015* pp. 42–47.
URL: <https://ieeexplore.ieee.org/abstract/document/7330471/>
- Duan, W., He, B., Chen, Y., Zou, S., Wang, Y., Nover, D., Chen, W. & Yang, G. (2018), 'Identification of long-term trends and seasonality in high-frequency water quality data from the Yangtze River basin, China', *PLoS ONE* **13**(2), 1–18.

- Dupas, R., Jomaa, S., Musolff, A., Borchardt, D. & Rode, M. (2016), ‘Disentangling the influence of hydroclimatic patterns and agricultural management on river nitrate dynamics from sub-hourly to decadal time scales’, *Science of the Total Environment* **571**, 791–800.
URL: <http://dx.doi.org/10.1016/j.scitotenv.2016.07.053>
- Durance, I., Bruford, M. W., Chalmers, R., Chappell, N. A., Christie, M., Cosby, B. J., Noble, D., Ormerod, S. J., Prosser, H., Weightman, A. & Woodward, G. (2016), ‘The Challenges of Linking Ecosystem Services to Biodiversity: Lessons from a Large-Scale Freshwater Study’, *Advances in Ecological Research* **54**, 87–134.
URL: <https://www.sciencedirect.com/science/article/pii/S006525041500032X>
- García, m. a. v. (2018), Time Series Analysis for Business Analytics, PhD thesis.
- Gariglio, F. P., Tonina, D. & Luce, C. H. (2013), ‘Spatiotemporal variability of hyporheic exchange through a pool-riffle-pool sequence’, *Water Resources Research* **49**(11), 7185–7204.
URL: <https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1002/wrcr.20419> *4010.1002/%28ISSN%291944-7973.AQUIDER1*
- Garnier, H. (2015), ‘Direct continuous-time approaches to system identification. Overview and benefits for practical applications’, *European Journal of Control* **24**, 50–62.
- Garnier, H., Gilson, M., Bastogne, T. & Richard, A. (2007), ‘Identification de modèles paramétriques à temps continu’, *Techniques de l'ingénieur* pp. S 7140:1–17.
URL: http://w3.cran.univ-lorraine.fr/perso/hugues.garnier/Enseignement/Ident/Resume_ident_continu.pdf
- Gasser, S. & Wiberg, D. M. (2010), *Convergence of a New Discrete-Time Parameter Estimator to Continuous-Time Values*.
URL: <papers2://publication/uuid/944BBDF9-ED95-4292-88F3-F3A9BE4F2202>
- Gavin, K., Neiberghs, H., Hoffman, A., Kiser, J. N., Cornmesser, M. A., Haredasht, S. A., Martínez-López, B., Wenz, J. R. & Moore, D. A. (2018), ‘Low colostrum yield in Jersey cattle and potential risk factors’, *Journal of Dairy Science* **101**(7), 6388–6398.
URL: <https://www.sciencedirect.com/science/article/pii/S0022030218302960>

- Gharehbaghi, H. & Sadeghi, J. (2016), ‘A novel approach for prediction of industrial catalyst deactivation using soft sensor modeling’, *Catalysts* **6**(7).
URL: <https://www.mdpi.com/2073-4344/6/7/93>
- Gordon, R. P. (2013), ‘Quantifying groundwater-surface water interactions to improve the outcomes of human activities’.
URL: <https://surface.syr.edu/etd/38/>
- Goudjil, A. (2017), ‘De l’identification des systèmes (hybrides et à sortie binaire) à l’extraction de motifs’.
URL: <https://tel.archives-ouvertes.fr/tel-01743839/>
- Grandemange, Q. (2018), Contribution à la modélisation et à la détection d’anomalies du trafic Internet à partir de mesures d’un coeur de réseau opérateur, PhD thesis.
URL: <https://tel.archives-ouvertes.fr/tel-01865546/>
- Grandemange, Q., Bhujwala, Y., Gilson, M., Ferveur, O. & Gnaedinger, E. (2017a), ‘An as-level approach to network traffic analysis and modelling’, *IEEE International Conference on Communications* .
URL: <https://ieeexplore.ieee.org/abstract/document/7996344/>
- Grandemange, Q., Bhujwala, Y., Gilson, M., Ferveur, O. & Gnaedinger, E. (2017b), ‘Analysing and Modelling a Network AS-Level Traffic’, pp. 7218–7221.
URL: <https://hal.archives-ouvertes.fr/hal-01567442/>
- Gu, J. (2008), ‘Design of robotic excavator arm control utilizing proportional-integral- plus’, *Proceedings of the World Congress on Intelligent Control and Automation (WCICA)* pp. 971–976.
- Ha, H. & Welsh, J. S. (2014), ‘Ensuring stability in continuous time system identification instrumental variable method for over-parameterized models’, *Proceedings of the IEEE Conference on Decision and Control* pp. 2597–2602.
URL: <https://ieeexplore.ieee.org/abstract/document/7039786/>

- Ha, H. & Welsh, J. S. (2015), ‘Model order selection for continuous time instrumental variable methods using regularization’, *Proceedings of the 54th IEEE Conference on Decision and Control* pp. 771–776.
URL: <https://ieeexplore.ieee.org/abstract/document/7402323/>
- Haddad, M., Taibi, H. & Mohammed Arezki, S. M. (2013), ‘On the recent global mean sea level changes: Trend extraction and El Niño’s impact’, *Comptes Rendus - Geoscience* **345**(4), 167–175.
URL: <http://dx.doi.org/10.1016/j.crte.2013.03.002>
- Halliday, S. J., Skeffington, R. A., Wade, A. J., Bowes, M. J., Read, D. S., Jarvie, H. P. & Loewenthal, M. (2016), ‘Riparian shading controls instream spring phytoplankton and benthic algal growth’, *Environmental Science: Processes and Impacts* **18**(6), 677–689.
URL: <https://pubs.rsc.org/en/content/articlehtml/2016/em/c6em00179c>
- Halliday, S. J., Skeffington, R. A., Wade, A. J., Neal, C., Reynolds, B., Norris, D. & Kirchner, J. W. (2013), ‘Upland streamwater nitrate dynamics across decadal to sub-daily timescales: A case study of Plynlimon, Wales’, *Biogeosciences* **10**(12), 8013–8038.
URL: <http://centaur.reading.ac.uk/35481/>
- Hamed, A., Darwish, R. & Shaban, E. (2014), ‘Hardware Synthesis and Dynamic Modeling of Bitumen Tank’, *academia.edu* .
URL: http://www.academia.edu/download/36725574/AbdelRahman_Paper_JAS.pdf
- Hamed, A., Shaban, E. M., Darwish, R. R. & Abdel ghany, A. M. (2017), ‘Design and implementation of discrete PID control applied to Bitumen tank based on new approach of pole placement technique’, *International Journal of Dynamics and Control* **5**(3), 604–613.
URL: <http://link.springer.com/10.1007/s40435-015-0199-5>
- Hao, L., Sun, G., Liu, Y., Wan, J., Qin, M., Qian, H., Liu, C., Zheng, J., John, R., Fan, P. & Chen, J. (2015), ‘Urbanization dramatically altered the water balances of a paddy field-dominated basin in southern China’, *Hydrology and Earth System Sciences* **19**(7), 3319–3331.
URL: www.hydrol-earth-syst-sci.net/19/3319/2015/

- Hatzopoulos, P. & Hab. (2013), ‘Corrigendum to ”Common mortality modelling and coherent forecasts. An empirical analysis of worldwide mortality data” [INSUMA 52(2) (2013) 320-337]’, *Insurance: Mathematics and Economics* **53**(3), 919.
URL: <https://www.sciencedirect.com/science/article/pii/S016766871300005X>
- Hitzemann, U. (2013), Extensions in Non-minimal State-space and State-dependent Parameter Model Based Control with Application to a DC-DC Boost Converter, PhD thesis.
URL: <https://core.ac.uk/download/pdf/78653746.pdf>
- Hjalmarsson, H. & Sjöberg, J. (2012), ‘A mathematica toolbox for signals, models and identification’, *IFAC Proceedings Volumes (IFAC-PapersOnline)* **16**(PART 1), 1541–1546.
URL: <https://www.sciencedirect.com/science/article/pii/S1474667015381751>
- Hong, J.-K., Kwon, H.-J., Lim, J.-H., Byun, Y.-H., Lee, J.-H. & Kim, J. (2009), ‘Standardization of KoFlux Eddy-Covariance Data Processing’, *Korean Journal of Agricultural and Forest Meteorology* **11**(1), 19–26.
URL: http://www.koreascience.or.kr/article/ArticleFullRecord.jsp?cn=NRGSBM_2009_v11n1_19
- Horn, J. E. (2011), Development and Extrapolation of a General Light Use Efficiency Model for the Gross Primary Production, PhD thesis.
- Horn, J. E. & Schulz, K. (2011), ‘Identification of a general light use efficiency model for gross primary production’, *Biogeosciences* **8**(4), 999–1021.
- Hsieh, C. (2005), ‘Hand tool handle with rotary cap’.
URL: <https://patents.google.com/patent/US6976413B2/en>
- Ionescu, A. (2013), ‘Prévision statistique des concentrations de particules dans l’air: Tour d’horizon des principaux outils mathématiques: Airborne pollutant concentration forecast: review of the main mathematical methods’, *Pollution Atmosphérique* .
URL: <https://doi.org/10.4267/pollution-atmospherique.873>

- Janot, A. (2018), ‘On the identification of continuous-time inverse dynamic model of electromechanical systems operating in closed loop with an instrumental variable approach: application to industrial robots’.
URL: <https://hal.archives-ouvertes.fr/tel-01691536/>
- Jiang, B., Liang, S., Wang, J. & Xiao, Z. (2010), ‘Modeling MODIS LAI time series using three statistical methods’, *Remote Sensing of Environment* **114**(7), 1432–1444.
URL: <https://www.sciencedirect.com/science/article/pii/S0034425710000593>
- Juarez, P. R., Junez-Ferrerira, H. E., Trinidad, J. G., De La Rosa Vargas, J. I., Tejada, C. E. & Burnes, S. (2018), ‘Vadose zone hydraulic conductivity monitoring by using an arduino data acquisition system’, *28th International Conference on Electronics, Communications and Computers, CONIELECOMP 2018* pp. 80–85.
- Karamuz, E., Romanowicz, R. J. & Booij, M. J. (2015), ‘Influence of land-use and water management practices on water levels in the middle river vistula’, *GeoPlanet: Earth and Planetary Sciences* **16**, 17–31.
URL: <https://www.researchgate.net/publication/280529295>
- Khalilipour, M. M., Sadeghi, J., Shahraki, F. & Razzaghi, K. (2016), ‘Nonsquare multivariable non-minimal state space-proportional integral plus (NMSS-PIP) control for atmospheric crude oil distillation column’, *Chemical Engineering Research and Design* **113**, 140–150.
URL: <https://www.sciencedirect.com/science/article/pii/S0263876216302040>
- Kharaji, S., Sadeghi, J., Shahraki, F. & Khalilipour, M. M. (2019), ‘A New control structure for tert-amyl methyl ether production using reactive distillation’, *ISA Transactions* .
URL: <https://www.sciencedirect.com/science/article/pii/S0019057819303106>
- Kiczko, A. (2008), ‘Multi-criteria decision support system for Siemianówka reservoir under uncertainties’, *Environment* .
URL: <http://pure.iiasa.ac.at/id/eprint/8758/>
- Kiczko, A. & Ermolieva, T. (2012), Multiple-criteria decision support system for Siemianówka reservoir under uncertainties, in ‘Lecture Notes in Economics and Mathematical Systems’, Vol. 658, pp. 187–201.
URL: http://link.springer.com/10.1007/978-3-642-22884-1_9

- Kiczko, A. & Napiórkowski, J. J. (2011), Aspiration-Reservation Decision Support System for Siemianówka Reservoir, in 'Springer', pp. 111–121.
URL: http://link.springer.com/10.1007/978-3-642-19059-9_7 https://link.springer.com/chapter/10.1007/978-3-642-19059-9_7
- Kikuchi, C. P. & Ferré, T. P. (2017), 'Analysis of subsurface temperature data to quantify groundwater recharge rates in a closed Altiplano basin, northern Chile', *Hydrogeology Journal* **25**(1), 103–121.
URL: <https://link.springer.com/article/10.1007/s10040-016-1472-1>
- Kioutsoukis, I., Rapsomanikis, S. & Loupa, R. (2006), 'Robust stochastic seasonal precipitation scenarios', *International Journal of Climatology* **26**(14), 2077–2095.
URL: <http://doi.wiley.com/10.1002/joc.1351>
- Kwon, H.-J., Lee, J.-H., Lee, Y.-K., Lee, J.-W., Jung, S.-W. & Kim, J. (2009), 'Seasonal Variations of Evapotranspiration Observed in a Mixed forest in the Seolmacheon Catchment', *Korean Journal of Agricultural and Forest Meteorology* **11**(1), 39–47.
URL: http://www.ndsl.kr/soc_img/society/ksafm/NRGSBM/2009/v11n1/NRGSBM_2009_v11n1_39.pdf
- Lambertz, P., Palancar, M. C., Aragón, J. M. & Gil, R. (2006), 'Determining the dispersion characteristics of rivers from the frequency response of the system', *Water Resources Research* **42**(9).
URL: <http://doi.wiley.com/10.1029/2005WR004100>
- Lambrechts, T. (2016), 'Bioreactor and process monitoring for scale-up of stem cell production', p. 193.
URL: <https://lirias.kuleuven.be/1717206?limo=0>
- Lautz, L. K. (2012), 'Observing temporal patterns of vertical flux through streambed sediments using time-series analysis of temperature records', *Journal of Hydrology* **464-465**, 199–215.
URL: <http://dx.doi.org/10.1016/j.jhydrol.2012.07.006>
- Lautz, L. K., Kranes, N. T. & Siegel, D. I. (2010), 'Heat tracing of heterogeneous hyporheic exchange adjacent to in-stream geomorphic features', *Hydrological Processes* **24**(21), 3074–3086.
URL: <https://onlinelibrary.wiley.com/doi/abs/10.1002/hyp.7723>

- Lautz, L. K. & Ribaudó, R. E. (2012), ‘Scaling up point-in-space heat tracing of seepage flux using bed temperatures as a quantitative proxy’, *Hydrogeology Journal* **20**(7), 1223–1238.
URL: <https://link.springer.com/article/10.1007/s10040-012-0870-2>
- Lauzon, N. & Lence, B. J. (2008), ‘Hybrid fuzzy-mechanistic models for addressing parameter variability’, *Environmental Modelling and Software* **23**(5), 535–548.
URL: <https://www.sciencedirect.com/science/article/pii/S1364815207001454>
- Laycock, N. J., Krouse, D. P., Hendy, S. C. & Williams, D. E. (2014), ‘Computer simulation of pitting corrosion of stainless steels’, *Electrochemical Society Interface* **23**(4), 65–71.
URL: <http://interface.ecsdl.org/content/23/4/65.short>
- Levy, B., Lefebvre, K. & Legge, J. (2007), ‘Quantification and forecasting of emissions from taxiing aircraft’, *6th EUROCONTROL Innovative Research Workshop and Exhibition: Disseminating ATM Innovative Research* pp. 193–197.
URL: http://eprints.mdx.ac.uk/2242/1/Wong_eurocontrol_innovative_research_workshop_2007.pdf#page=200
- Liu, X., Wang, J. & Zheng, W. X. (2011), ‘Convergence analysis of refined instrumental variable method for continuous-time system identification’, *IET Control Theory and Applications* **5**(7), 868–877.
URL: <https://digital-library.theiet.org/content/journals/10.1049/iet-cta.2010.0211>
- Ljung, L. (2009), ‘Experiments with identification of continuous time models’, *IFAC Proceedings Volumes (IFAC-PapersOnline)* **15**(PART 1), 1175–1180.
URL: <https://www.sciencedirect.com/science/article/pii/S1474667016388097>
- Lu, C., Chen, S. & Su, X. (2017), ‘Heat tracing to determine spatial patterns of hyporheic exchange across a river transect’, *Hydrogeology Journal* **25**(6), 1633–1646.
URL: <https://link.springer.com/article/10.1007/s10040-017-1553-9>
- Lu, C. P., Yao, C. C. & Shu, B. N. (2017), ‘Differences in methods of quantifying the vertical hyporheic flow for streambank flow field’, *IOP Conference Series: Earth and Environmental Science* **82**(1), 12054.

- Luce, C. H., Tonina, D., Gariglio, F. & Applebee, R. (2013), ‘Solutions for the diurnally forced advection-diffusion equation to estimate bulk fluid velocity and diffusivity in streambeds from temperature time series’, *Water Resources Research* **49**(1), 488–506.
URL: <https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2012WR012380%4010.1002/%28ISSN%291944-7973.AQUIDER1>
- Ma, S., Zeng, S., Dong, X., Chen, J. & Olsson, G. (2014), ‘Short-term prediction of influent flow rate and ammonia concentration in municipal wastewater treatment plants’, *Frontiers of Environmental Science and Engineering* **8**(1), 128–136.
- Macaia, D. (2017), Identificação experimental das propriedades modais de uma estrutura, PhD thesis.
URL: <https://run.unl.pt/handle/10362/23425>
- Maheswaran, R. & Khosa, R. (2010), ‘Wavelet-based model for long-term forecasting of CO₂ levels in atmosphere’, *Proceedings of the International Conference on "Recent Advances in Space Technology Services and Climate Change - 2010"*, *RSTS and CC-2010* pp. 353–358.
URL: <https://ieeexplore.ieee.org/abstract/document/5712868/>
- Maheswaran, R. & Khosa, R. (2013), ‘Long term forecasting of groundwater levels with evidence of non-stationary and nonlinear characteristics’, *Computers and Geosciences* **52**, 422–436.
URL: <https://www.sciencedirect.com/science/article/pii/S0098300412003470>
- Malti, R., Victor, S., Oustaloup, A. & Garnier, H. (2008), ‘An optimal instrumental variable method for continuous-time fractional model identification’, *IFAC Proceedings Volumes (IFAC-PapersOnline)* **17**(1 PART 1).
URL: <https://www.sciencedirect.com/science/article/pii/S1474667016413017>
- Markovsky, I. (2013), ‘A software package for system identification in the behavioral setting’, *Control Engineering Practice* **21**(10), 1422–1436.
URL: <https://www.sciencedirect.com/science/article/pii/S0967066113001147>
- Marsili-Libelli, S. (2016), *Environmental systems analysis with MATLAB®*.
URL: <https://www.taylorfrancis.com/books/9781315370446>

- Maruta, I. & Sugie, T. (2013), 'Projection-based identification algorithm for grey-box continuous-time models', *Systems and Control Letters* **62**(11), 1090–1097.
URL: <http://dx.doi.org/10.1016/j.sysconle.2013.08.006>
- McIntyre, N. & Marshall, M. (2010), 'Identification of rural land management signals in runoff response', *Hydrological Processes* **24**(24), 3521–3534.
URL: <https://onlinelibrary.wiley.com/doi/abs/10.1002/hyp.7774>
- Mendoza, D. E., Samaniego, E. P., Mora, D. E., Espinoza, M. J. & Campozano, L. V. (2019), 'Finding teleconnections from decomposed rainfall signals using dynamic harmonic regressions: a Tropical Andean case study', *Climate Dynamics* **52**(7-8), 4643–4670.
URL: <https://doi.org/10.1007/s00382-018-4400-3>
- Meng, Q., Guan, Y. & Xie, A. (2011), 'A review of CFD-based system identification', *Proceedings of the 2011 Chinese Control and Decision Conference, CCDC 2011* pp. 3268–3273.
URL: <https://ieeexplore.ieee.org/abstract/document/5968821/>
- Meng, Q., Guan, Y. & Yan, X. (2011), 'CFD-based system identification method for controlled system involved of fluid flow and heat/mass transfer', *Proceedings of the 2011 Chinese Control and Decision Conference, CCDC 2011* pp. 3274–3279.
URL: <https://ieeexplore.ieee.org/abstract/document/5968822/>
- Meng, Q., Wang, Y., Yan, X. & Li, Z. (2009), 'CFD assisted modeling for control system design: A case study', *Simulation Modelling Practice and Theory* **17**(4), 730–742.
URL: <http://dx.doi.org/10.1016/j.simpat.2009.01.003>
- Meresa, H. K., Romanowicz, R. J. & Napiorkowski, J. J. (2017), 'Understanding changes and trends in projected hydroclimatic indices in selected Norwegian and Polish catchments', *Acta Geophysica* **65**(4), 829–848.
URL: <https://link.springer.com/article/10.1007/s11600-017-0062-5>

- Minaudo, C., Meybeck, M., Moatar, F., Gassama, N. & Curie, F. (2015), ‘Eutrophication mitigation in rivers: 30 Years of trends in spatial and seasonal patterns of biogeochemistry of the Loire River (1980-2012)’, *Biogeosciences* **12**(8), 2549–2563.
- Moghadam, R. P., Shahraki, F. & Sadeghi, J. (2018), ‘Online monitoring for industrial processes quality control using time varying parameter model’, *International Journal of Engineering, Transactions B: Applications* **31**(4), 524–532.
- Nasir, H. A. (2016), ‘System Identification and Control of Rivers’, p. 252.
URL: <https://minerva-access.unimelb.edu.au/handle/11343/116673>
- Nasir, H. A. & Weyer, E. (2015), ‘Estimation of Models for the Upper Part of Murray River with Flow Dependent Parameters’, *IFAC-PapersOnLine* **48**(28), 727–732.
URL: <https://www.sciencedirect.com/science/article/pii/S2405896315028402>
- Ninness, B. (2014), ‘System Identification Software’, *Encyclopedia of Systems and Control* pp. 1–12.
URL: https://link.springer.com/content/pdf/10.1007/978-1-4471-5058-9_105.pdf
- Ochieng, G. M. & Otieno, F. A. O. (2009), ‘Data-based mechanistic modelling of stochastic rainfall-flow processes by state dependent parameter estimation’, *Environmental Modelling and Software* **24**(2), 279–284.
URL: <https://www.sciencedirect.com/science/article/pii/S136481520800131X>
- Ochieng, G. & Otieno, F. (n.d.), ‘Improvement of a simple stochastic rainfall-flow model by state dependent parameter estimation’, *pdfs.semanticscholar.org* .
URL: <https://pdfs.semanticscholar.org/e74b/0df413ef2a073f72c58a02e2758370f1da5e.pdf>
- Ochieng, G., Otieno, F. & Ndiritu, J. (n.d.), ‘Characterizing the nonlinearity in rainfall–river flow dynamics of a complex river system by state dependent parameter’, *researchgate.net* .
- Ogun, O. A., Festus, M. U. & Inyang, I. J. (2017), ‘Optimal PIP Control of a pH Neutralization Process Based on State-Dependent Parameter Model’, *IFAC-PapersOnLine* **50**(2), 37–42.
URL: <https://www.sciencedirect.com/science/article/pii/S2405896317335383>

- Otieno, O. G. M. & Ndiritu, F. (2015), ‘Development of a Simple Mechanistic Flow – Concentration Model for Nps - Pollution : a Case of Vaal River’, *researchgate.net* .
- Pace, P. D. (2010), *Essays on macroeconomic comovement and the term structure*.
URL: <http://search.proquest.com/openview/2a2764b2062f83f195712e81ef370024/1?pq-origsite=gscholar&cbl=18750&diss=y>
- Padilla, A., Garnier, H. & Gilson, M. (2015), ‘Version 7.0 of the CONTSID toolbox’, *IFAC-PapersOnLine* **48**(28), 757–762.
URL: <https://www.sciencedirect.com/science/article/pii/S2405896315028451>
- Pagendam, D. E. & Percival, D. B. (2015), ‘Estimating freshwater flows from tidally affected hydrographic data’, *Water Resources Research* **51**(3), 1619–1634.
URL: <https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1002/2014WR015706>
- Pan, X., Helgason, W., Ireson, A. & Wheeler, H. (2017), ‘Field-scale water balance closure in seasonally frozen conditions’, *Hydrology and Earth System Sciences* **21**(11), 5401–5413.
URL: <https://www.hydrol-earth-syst-sci.net/21/5401/2017/>
- Park, J., Byun, K., Choi, M., Jang, E., Lee, J., Lee, Y. & Jung, S. (2015), ‘Evaluation of statistical gap fillings for continuous energy flux (evapotranspiration) measurements for two different land cover types’, *Stochastic Environmental Research and Risk Assessment* **29**(8), 2021–2035.
URL: <https://link.springer.com/article/10.1007/s00477-015-1101-x>
- Peralta, J. D. (2012), *Diseno automatico de redes de neuronas artificiales para la prediccion de series temporales*, PhD thesis.
URL: <http://hdl.handle.net/10016/15006>
- Pina, W., Feliu-Batlle, V. & Rivas-Perez, R. (2018), ‘Direct continuous-Time system identification of the purification process of the nimotuzumab, a humanized monoclonal antibody’, *IEEE Latin America Transactions* **16**(1), 31–37.
URL: <https://ieeexplore.ieee.org/abstract/document/8291451/>

- Pollock, D. (2007a), ‘Wiener–Kolmogorov filtering, frequency-selective filtering, and polynomial regression’, *cambridge.org* .
URL: <https://www.cambridge.org/core/journals/econometric-theory/article/wienerkolmogorov-filtering-frequencyselective-filtering-and-polynomial-regression/AE3E3AF7288CB007268F4D8F29DF1E8F>
- Pollock, D. S. (2006a), ‘Econometric methods of signal extraction’, *Computational Statistics and Data Analysis* **50**(9), 2268–2292.
URL: <https://www.sciencedirect.com/science/article/pii/S016794730500157X>
- Pollock, D. S. (2006b), ‘Introduction to the special issue on statistical signal extraction and filtering’, *Computational Statistics and Data Analysis* **50**(9), 2137–2145.
URL: <https://www.sciencedirect.com/science/article/pii/S0167947305001568>
- Pollock, D. S. (2009a), Investigating economic trends and cycles, in ‘Palgrave Handbook of Econometrics: Volume 2: Applied Econometrics’, Palgrave Macmillan UK, London, pp. 243–307.
URL: http://link.springer.com/10.1057/9780230244405_6
- Pollock, D. S. G. (2007b), ‘Investigating economic trends and cycles’, *Springer* .
URL: https://link.springer.com/chapter/10.1057/9780230244405_6
- Pollock, D. S. G. (2009b), ‘Statistical Signal Extraction and Filtering: A Partial Survey’, *Handbook of Computational Econometrics* pp. 321–376.
URL: <https://onlinelibrary.wiley.com/doi/pdf/10.1002/9780470748916#page=330>
- Prieto, E. G. (2011), Independent Component Analysis for Time Series, Technical report.
- Quichimbo, A. & Vázquez, R. (2014), ‘Predicción de caudales en la cabecera de la cuenca del Paute mediante el modelo DBM’.
URL: <http://dspace.ucuenca.edu.ec/jspui/handle/123456789/21356>

- Quichimbo, A., Vázquez, R. & Samaniego, E. (2013), ‘Aplicabilidad de los modelos NAM y DBM para estimar caudales en subcuencas alto andinas de Ecuador’, *Maskana* **4**(2), 85–103.
URL: <http://dspace.ucuenca.edu.ec/jspui/handle/123456789/5416>
- Quichimbo, E. (2010), ‘Estudio comparativo de los modelos NAM Y DBMM aplicado al pronostico de caudales.’, p. 78.
URL: <http://dspace.ucuenca.edu.ec/jspui/handle/123456789/756>
- Ratmaya, W., Soudant, D., Salmon-Monviola, J., Plus, M., Cochenec-Laureau, N., Goubert, E., Barillé, L. & Souchu, P. (2019), ‘Reduced phosphorus loads from the Loire and Vilaine rivers were accompanied by increasing eutrophication in the Vilaine Bay (south Brittany, France)’, *Biogeosciences* **16**(6), 1361–1380.
- Rau, G. C., Cuthbert, M. O., McCallum, A. M., Halloran, L. J. & Andersen, M. S. (2015), ‘Assessing the accuracy of 1-D analytical heat tracing for estimating near-surface sediment thermal diffusivity and water flux under transient conditions’, *Journal of Geophysical Research F: Earth Surface* **120**(8), 1551–1573.
- Rebai, A., Guesmi, K. & Hemici, B. (2015), ‘RIM: A Matlab software tool for recursive identification methods’, *International Journal of Automation and Computing* **12**(5), 482–489.
URL: <https://link.springer.com/article/10.1007/s11633-015-0905-y>
- Recido, J. (2016), ‘Social Protection and Support Initiative (SPSI): SAGIP Information System version 2.0 Registration Module and Referral Module’.
URL: <http://dspace.cas.upm.edu.ph/xmlui/handle/123456789/434>
- Reeves, J. & Hatch, C. E. (2016), ‘Impacts of three-dimensional nonuniform flow on quantification of groundwater-surface water interactions using heat as a tracer’, *Water Resources Research* **52**(9), 6851–6866.
- Rocabado, V. C. (2018), Influencia del uso de un modelo ”data based mechanistical” (DBM) en resultados de modelos hidrológicos continuos aplicados a cuencas alteradas, PhD thesis, UNIVERSIDAD DE CHILE.
URL: <http://repositorio.uchile.cl/handle/2250/151777>

- Romanowicz, R. J. (2012), ‘Application of optimal nonstationary time series analysis to water quality data and pollutant transport modelling’, *System Identification, Environmental Modelling, and Control System Design* **9780857299**, 501–518.
URL: https://link.springer.com/chapter/10.1007/978-0-85729-974-1_24
- Romanowicz, R. J. & Kar. (2014), Climate change impact on hydrological extremes (CHIHE) View project, Technical report.
URL: <https://www.researchgate.net/publication/272162612>
- Romanowicz, R. J. & Osuch, M. (2011), ‘Assessment of land use and water management induced changes in flow regime of the Upper Narew’, *Physics and Chemistry of the Earth* **36**(13), 662–672.
URL: <https://www.sciencedirect.com/science/article/pii/S1474706511000763>
- Romanowicz, R. J. & Osuch, M. (2015), ‘Stochastic semi-distributed flood forecasting system for the middle vistula reach’, *GeoPlanet: Earth and Planetary Sciences* **16**, 143–157.
URL: <https://www.researchgate.net/publication/279940162>
- Romanowicz, R., Osuch, M., Kiczko, A. & Napiórkowski, J. J. (2009), An Integrated Lowland Catchment Model for the Upper Narew, Technical report.
URL: <https://www.researchgate.net/publication/234174634>
- Roulin, E. & Vannitsem, S. (2015), ‘Post-processing of medium-range probabilistic hydrological forecasting: Impact of forcing, initial conditions and model errors’, *Hydrological Processes* **29**(6), 1434–1449.
- Roussel, E. (2017), ‘Contribution À La Modélisation, L’Identification Et La Commande D’Un Hélicoptère Miniature’.
URL: <https://www.theses.fr/2017STRAD030>
- Roussel, N., Ramillien, G., Frappart, F., Darrozes, J., Gay, A., Biancale, R., Striebig, N., Hanquiez, V., Bertin, X. & Allain, D. (2015), ‘Sea level monitoring and sea state estimate using a single geodetic receiver’, *Remote Sensing of Environment* **171**, 261–277.
URL: <http://dx.doi.org/10.1016/j.rse.2015.10.011>

- Sampson, P. D., Szpiro, A. A., Sheppard, L., Lindström, J. & Kaufman, J. D. (2011), ‘Pragmatic estimation of a spatio-temporal air quality model with irregular monitoring data’, *Atmospheric Environment* **45**(36), 6593–6606.
URL: <https://www.sciencedirect.com/science/article/pii/S1352231011004626>
- Sayed, H., Abdelhamid, A. & Shaban, E. M. (2018), ‘An Experimental Validation of Finite Element Method Versus Data Based Modelling When Applied to the Dynamic Modelling of Spatial Manipulator’, *Life Science Journal* **15**(2).
URL: <http://www.lifesciencesite.comonline>
- Sedano, J. & Corchado, E. (2010), ‘Detection of heat flux failures in building using a soft computing diagnostic system’, *Neural Network World* **20**(7), 883–898.
URL: <https://pdfs.semanticscholar.org/d0fb/5a34a097b7476f40a7b1d0dc315d4dd17fa0.pdf#page=80>
- Sedano, J. & Curiel, L. (2010), ‘A soft computing method for detecting lifetime building thermal insulation failures’, *Integrated Computer-Aided Engineering* **17**(2), 103–115.
URL: <https://content.iospress.com/articles/integrated-computer-aided-engineering/ica00337>
- Shaban, E. M. & Nada, A. A. (2014), ‘On linearization of nonlinear dynamic systems described by State-Dependent-Parameter (SDP) discrete-time model’, *11th World Congress on Computational Mechanics, WCCM 2014, 5th European Conference on Computational Mechanics, ECCM 2014 and 6th European Conference on Computational Fluid Dynamics, ECFD 2014* pp. 538–547.
URL: <http://congress.cimne.com/iacm-eccomas2014/admin/files/filePaper/p2682.pdf>
- Smith, A. C. (2015), *Speleothem Climate Capture-A Holocene Reconstruction of Northern Iberian Climate and Environmental Change*.
URL: <http://eprints.lancs.ac.uk/133480/1/11003582.pdf>
- Sobolic, F. M., Aljanaideh, K. F. & Bernstein, D. S. (2018), ‘A numerical investigation of direct and indirect closed-loop architectures for estimating nonminimum-phase zeros’, *International Journal of Control* .
URL: <https://www.tandfonline.com/action/journalInformation?journalCode=tcon20>

- Šreng, Ž., Lončar, G. & Grubišić, M. (2019), 'Methodology for determining the die-off coefficient of enterococci in the conditions of transport through the karst aquifer-case study: Bokanjac-Poličnik catchment', *Water (Switzerland)* **11**(4).
URL: <https://www.mdpi.com/2073-4441/11/4/820>
- Stremme, W. (2007), 'Bestimmung hoehenaufgeloester Trends der Spurengase O3, N2O und CH4 mit Hilfe der solaren Infrarotspektroskopie am Standort Zugspitze'.
URL: <https://core.ac.uk/download/pdf/35096125.pdf>
- Su, X., Shu, L., Li, W., Lu, C., Zhu, J., Wu, G., Wang, X. & Wang, G. (2015), 'Monitoring temporal patterns of vertical hyporheic flux via distributed temperature sensors', *IAHS-AISH Proceedings and Reports* **368**, 299–304.
URL: <https://www.proc-iahs.net/368/299/2015/piahs-368-299-2015.html>
- Suarez, J. (2011), 'Data-true Characterization Of Neuronal Models'.
URL: <https://stars.library.ucf.edu/etd/1798/>
- Sun, L., Zhao, Q., Xiang, J., Shi, J., Wang, L., Hu, S. & Su, S. (2009), 'Influence of methane on hot filament CVD diamond films deposited on high-speed steel substrates with WC-Co interlayer', *Huagong Xuebao/CIESC Journal* **60**(2), 444–449.
- Svoboda, P., Buerger, M. & Rupp, M. (2008), 'Forecasting of traffic load in a live 3G packet switched core network', *Proceedings of the 6th International Symposium Communication Systems, Networks and Digital Signal Processing, CSNDSP 08* pp. 433–437.
URL: <https://ieeexplore.ieee.org/abstract/document/4610775/>
- Tao, J., Yu, Z., Zhu, Y. & Ma, L. (2015), 'A linear quadratic structure based predictive functional control design for industrial processes against partial actuator failures', *Chemometrics and Intelligent Laboratory Systems* **146**, 263–269.
URL: <https://www.sciencedirect.com/science/article/pii/S016974391500146X>

- Terpstra, F. & Meijer, G. (2006), 'Data assimilation approach to adaptive forecasting using floating car data', *13th World Congress on Intelligent Transport Systems and Services* .
URL: <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.531.9177&rep=rep1&type=pdf>
- Tötterman, S. (2019), 'Aspects on Robust Control and Identification'.
URL: <https://www.doria.fi/handle/10024/168909>
- Trapero, J. R. A. (2008), *Técnicas de Identificación Algebraicas y Espectrales de Señales Armónicas. Aplicaciones en Mecatrónica y Economía*.
URL: <https://www.researchgate.net/publication/271507038>
- Tursinbaeva, A. & Adil. (2018), 'Automated temperature control data', *elibrary.ru* .
URL: <https://elibrary.ru/item.asp?id=35662182>
- Ungvári, T., Gogolák, P., Bagdány, M., Damjanovich, L. & Bene, L. (2016), 'Perrin and Förster unified: Dual-laser triple-polarization FRET (3polFRET) for interactions at the Förster-distance and beyond', *Biochimica et Biophysica Acta - Molecular Cell Research* **1863**(4), 703–716.
URL: <http://dx.doi.org/10.1016/j.bbamcr.2016.02.002>
- Unknown (2009), '(chinese characters)', Google Scholar.
- Unknown (2010), '(chinese characters)', Google Scholar.
- Unknown (2011), '(greek characters)', Google Scholar.
- Unknown (2012), '(chinese characters)', Google Scholar.
- Unknown (2015), '(chinese characters)', Google Scholar.
- Unknown (n.d.), '(chinese characters)', Google Scholar.

- Usevich, K. & Markovsky, I. (n.d.), Software package for mosaic-Hankel structured low-rank approximation, Technical report.
URL: <https://github.com/slra/slra/>
- Vaughan, M. & McIntyre, N. (2012), ‘An assessment of DBM flood forecasting models’, *Proceedings of the Institution of Civil Engineers: Water Management* **165**(2), 105–120.
URL: <http://dx.doi.org/10.1680/wama.2012.165.2.105>
- Victor, S. (2010), ‘Identification par modèle non entier pour la poursuite robuste de trajectoire par platitude’, *ori-oai.u-bordeaux1.fr* .
URL: http://ori-oai.u-bordeaux1.fr/pdf/2010/VICTOR_STEPHANE_2010.pdf
- Vigiak, O. (2005), ‘Modelling spatial patterns of erosion in the West Usambara Mountains of Tanzania’, *Elsevier* .
URL: <https://www.sciencedirect.com/science/article/pii/S0022169405004099>
- Vogt, T., Schirmer, M. & Cirpka, O. A. (2012), ‘Investigating riparian groundwater flow close to a losing river using diurnal temperature oscillations at high vertical resolution’, *Hydrology and Earth System Sciences* **16**(2), 473–487.
URL: www.hydrol-earth-syst-sci.net/16/473/2012/
- Vogt, T., Schneider, P., Hahn-Woernle, L. & Cirpka, O. A. (2010), ‘Estimation of seepage rates in a losing stream by means of fiber-optic high-resolution vertical temperature profiling’, *Journal of Hydrology* **380**(1-2), 154–164.
URL: <https://www.sciencedirect.com/science/article/pii/S0022169409006921>
- von Asmuth, J. R., Maas, K., Knotters, M., Bierkens, M. F., Bakker, M., Olsthoorn, T. N., Cirkel, D. G., Leunk, I., Schaars, F. & von Asmuth, D. C. (2012), ‘Software for hydrogeologic time series analysis, interfacing data with physical insight’, *Environmental Modelling and Software* **38**, 178–190.
URL: <http://dx.doi.org/10.1016/j.envsoft.2012.06.003>
- Wagener, T. & McIntyre, N. (2012), ‘Hydrological catchment classification using a data-based mechanistic strategy’, *System Identification, Environmental Modelling, and Control System Design* **9781430237**, 483–500.
URL: https://link.springer.com/chapter/10.1007/978-0-85729-974-1_23

- Wheater, H. S., Ballard, C., Bulygina, N., McIntyre, N. & Jackson, B. M. (2012), ‘Modelling environmental change: Quantification of impacts of land use and land management change on UK flood risk’, *System Identification, Environmental Modelling, and Control System Design* **9781430237**, 449–481.
URL: https://link.springer.com/chapter/10.1007/978-0-85729-974-1_22
- Wolski, A. (2018), *Introduction to Beam Dynamics in High-Energy Electron Storage Rings*.
URL: <https://iopscience.iop.org/chapter/978-1-6817-4989-1/bk978-1-6817-4989-1ch1.pdf>
- Wu, Q., Song, J., Wang, J. & Xiao, Z. (2014), ‘Forest canopy growth dynamic modeling based on remote sensing products and meteorological data in Daxing’anling of Northeast China’, *Land Surface Remote Sensing II* **9260**, 92601P.
URL: <https://www.spiedigitallibrary.org/conference-proceedings-of-spie/9260/92601P/Forest-canopy-growth-dynamic-modeling-based-on-remote-sensing-products/10.1117/12.2069111.short>
- Xiaolian, Z. (2012), Stock market modeling: a system adaptation approach zheng xiaolian, Technical report.
- Xu, X., Du, H., Zhou, G., Li, P., Shi, Y. & Zhou, Y. (2016), ‘Eddy covariance analysis of the implications of drought on the carbon fluxes of Moso bamboo forest in southeastern China’, *Trees - Structure and Function* **30**(5), 1807–1820.
URL: <https://link.springer.com/article/10.1007/s00468-016-1414-5>
- Yanar, T. & Akyürek, Z. (2010), ‘Comparing model estimation accuracies of linear time invariant models and artificial neural networks for spatial decision’, *Citeseer* .
URL: <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.632.5776&rep=rep1&type=pdf#page=134>
- Yang, Y., Christakos, G., Yang, X. & He, J. (2018), ‘Spatiotemporal characterization and mapping of PM2.5 concentrations in southern Jiangsu Province, China’, *Environmental Pollution* **234**, 794–803.
URL: <https://www.sciencedirect.com/science/article/pii/S0269749117338101>
- Youssef, A., D’Haene, M., Vleugels, J., De Bruyne, G. & Aerts, J. M. (2019), ‘Localised Model-Based Active Controlling of Blood Flow During Chemotherapy to Prevent Nail Toxicity and Onycholysis’, *Journal of Medical and Biological Engineering* **39**(1), 139–150.

- Zajíc, I. (2013), A Hammerstein-bilinear Approach with Application to Heating Ventilation and Air Conditioning Systems, PhD thesis.
- Zajic, I., Larkowski, T., Burnham, K. J. & Hill, D. (2012a), Control analysis and tuning of an industrial temperature control system, *in* 'IFAC Proceedings Volumes (IFAC-PapersOnline)', Vol. 2, pp. 679–684.
- Zajic, I., Larkowski, T., Burnham, K. J. & Hill, D. (2012b), Temperature model of an industrial air handling unit and manufacturing zone, *in* 'IFAC Proceedings Volumes (IFAC-PapersOnline)', Vol. 45, pp. 656–661.
- Zheng, X. & Chen, B. M. (2012), 'Modeling and forecasting of stock markets under a system adaptation framework', *Journal of Systems Science and Complexity* **25**(4), 641–674.
- Zheng, X. & Chen, B. M. (2013), *Stock Market Modeling and Forecasting A System Adaptation Approach*.
URL: <http://www.springer.com/series/642>
- Zheng, X. & Chen, B. M. (2014), 'Identification of stock market forces in the system adaptation framework', *Information Sciences* **265**, 105–122.
URL: <https://ieeexplore.ieee.org/abstract/document/5524447/>
- Zhou, T., Huang, M., Bao, J., Hou, Z., Arntzen, E., Mackley, R., Crump, A., Goldman, A. E., Song, X., Xu, Y. & Zachara, J. (2017), 'A new approach to quantify shallow water hydrologic exchanges in a large regulated river reach', *Water (Switzerland)* **9**(9).
URL: <https://www.mdpi.com/2073-4441/9/9/703>
- Zhu, C. & Paul, F. W. (1997), 'Nonlinear System Identification with Fourier Series Neural Networks', *IFAC Proceedings Volumes* **30**(6), 1611–1616.
URL: <https://hal.univ-lorraine.fr/tel-01755007/document>

KU Leuven authors (Table 3)

Adeyemi, O., Grove, I., Peets, S., Domun, Y. & Norton, T. (2018a), 'Dynamic modelling of lettuce transpiration for water status monitoring', *Computers and Electronics in Agriculture* **155**, 50–57.

URL: <https://www.sciencedirect.com/science/article/pii/S0168169918308469>

Adeyemi, O., Grove, I., Peets, S., Domun, Y. & Norton, T. (2018b), 'Dynamic modelling of the baseline temperatures for computation of the crop water stress index (CWSI) of a greenhouse cultivated lettuce crop', *Computers and Electronics in Agriculture* **153**, 102–114.

URL: <https://www.sciencedirect.com/science/article/pii/S0168169918300887>

Aerts, J. M., Gebruers, F., Van Camp, E. & Berckmans, D. (2008), 'Controlling horse heart rate as a basis for training improvement', *Computers and Electronics in Agriculture* **64**(1), 78–84.

URL: <https://www.sciencedirect.com/science/article/pii/S0168169908001361>

Aerts, J. M., Haddad, W. M., An, G. & Vodovotz, Y. (2014), 'From data patterns to mechanistic models in acute critical illness', *Journal of Critical Care* **29**(4), 604–610.

URL: <https://www.sciencedirect.com/science/article/pii/S088394411400118X>

Berckmans, D. & Exadaktylos, V. (2017), 'Stress monitoring for individuals in moving structures - US Patent App. 15/320, 532'.

URL: <https://patents.google.com/patent/US20170156656A1/en>

Bovet-Carmona, M., Menigoz, A., Pinto, S., Tambuyzer, T., Krautwald, K., Voets, T., Aerts, J. M., Angenstein, F., Vennekens, R. & Balschun, D. (2018), 'Disentangling the role of TRPM4 in hippocampus-dependent plasticity and learning: an electrophysiological, behavioral and fMRI approach', *Brain Structure and Function* **223**(8), 3557–3576.

URL: <http://dx.doi.org/10.1007/s00429-018-1706-1> <https://link.springer.com/article/10.1007/s00429-018-1706-1>

- Bueckers, J., Theunis, J., Fernández, A. P., Emiel, E. F., Spruit, M. A., De Boever, P. & Aerts, J. M. (2019), ‘Box-Jenkins transfer function modelling for reliable determination of VO₂ kinetics in patients with COPD’, *Applied Sciences (Switzerland)* **9**(9), 1–13.
URL: <https://www.mdpi.com/2076-3417/9/9/1822>
- De Bruyne, G., Aerts, J. M., Sloten, J. V., Goffin, J., Verpoest, I. & Berckmans, D. (2010), ‘Transient sweat response of the human head during cycling’, *International Journal of Industrial Ergonomics* **40**(4), 406–413.
- De Bruyne, G., Aerts, J. M., Vander Sloten, J., Goffin, J., Verpoest, I. & Berckmans, D. (2012), ‘Quantification of local ventilation efficiency under bicycle helmets’, *International Journal of Industrial Ergonomics* **42**(3), 278–286.
- D’Haene, M., Youssef, A., De Bruyne, G. & Aerts, J.-M. (2015), ‘Modelling and controlling blood flow by active cooling of the fingers to prevent nail toxicity’, *Thesis. KU Leuven, Belgium* p. 89.
- Haredasht, S. A., Barrios, J. M., Maes, P., Verstraeten, W. W., Clement, J., Ducoffre, G., Lagrou, K., Ranst, M. V., Coppin, P., Berckmans, D. & Aerts, J. M. (2011), ‘A dynamic data-based model describing nephropathia epidemica in Belgium’, *Biosystems Engineering* **109**(1), 77–89.
URL: <https://www.sciencedirect.com/science/article/pii/S1537511011000341>
- Haredasht, S. A., Maes, P., Clement, J., Verstraeten, W. W., Van Ranst, M., Coppin, P., Berckmans, D. & Aerts, J.-M. (2016), ‘Modelling Bank Vole Population Dynamics as A Function of Climate Variables’, Technical Report 1.
URL: www.ijpaes.com
- Haredasht, S. A., Vidal, G., Edmondson, A., Moore, D., Silva-del Río, N. & Martínez-López, B. (2018), ‘Characterization of the temporal trends in the rate of cattle carcass condemnations in the US and dynamic modeling of the condemnation reasons in California with a seasonal component’, *Frontiers in Veterinary Science* **5**(JUN).
- Jamali, P., Sadeghi, J., Tavakoli, S. & Khosravi, M. A. (2015), ‘Weight optimal Proportional-Integral-Plus control of a gasoline engine model’, *2015 European Control Conference, ECC 2015* pp. 1426–1431.
URL: <https://ieeexplore.ieee.org/abstract/document/7330739/>

- Lambrechts, T., Papantoniou, I., Sonnaert, M., Schrooten, J. & Aerts, J. M. (2014), ‘Model-based cell number quantification using online single-oxygen sensor data for tissue engineering perfusion bioreactors’, *Biotechnology and Bioengineering* **111**(10), 1982–1992.
URL: <https://onlinelibrary.wiley.com/doi/abs/10.1002/bit.25274>
- Lefever, J., Berckmans, D. & Aerts, J. M. (2014), ‘Time-variant modelling of heart rate responses to exercise intensity during road cycling’, *European Journal of Sport Science* **14**(SUPPL.1).
URL: <https://www.tandfonline.com/doi/abs/10.1080/17461391.2012.708791>
- Lule, I., Eren Özcan, S. & Berckmans, D. (2014), ‘Characterisation of ventilation rate in naturally-ventilated buildings using heat dissipation from a line source’, *Biosystems Engineering* **124**, 53–62.
URL: <https://www.sciencedirect.com/science/article/pii/S1537511014000816>
- Marko, T., Exadaktylos, V., Aerts, J. M., Troosters, T., Decramer, M., Berckmans, D. & Janssens, W. (2014), Data based modelling of expired airflow clarifies chronic obstructive pulmonary disease, *in* ‘BIOSIGNALS 2014 - 7th Int. Conference on Bio-Inspired Systems and Signal Processing, Proceedings; Part of 7th Int. Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2014’, pp. 5–12.
URL: www.clinicaltrials.gov
- Norton, T., Piette, D., Exadaktylos, V. & Berckmans, D. (2018), ‘Automated real-time stress monitoring of police horses using wearable technology’, *Applied Animal Behaviour Science* **198**, 67–74.
URL: <https://www.sciencedirect.com/science/article/pii/S0168159117302599>
- Ntoula, E., Katsoulas, N., Kittas, C., Youssef, A., Exadaktylos, V. & Berckmans, D. (2012), ‘Data based modeling approach for greenhouse air temperature and relative humidity’, *Acta Horticulturae* **952**, 67–72.
URL: https://www.actahort.org/books/952/952_5.htm
- Peña Fernández, A., Exadaktylos, V., Vranken, E. & Berckmans, D. (2015), ‘Analysis of behavioural patterns in broilers using camera-based technology’, *American Society of Agricultural and Biological Engineers Annual International Meeting 2015* **6**, 4812–4816.
URL: <https://elibrary.asabe.org/abstract.asp?aid=46289>

- Peña Fernández, A., Norton, T., Vranken, E. & Berckmans, D. (2018), ‘Real-time grower-finisher pigs’ growth monitored and forecasted using a dynamic linear regression model’, *elibrary.asabe.org* .
URL: <https://elibrary.asabe.org/abstract.asp?aid=49719>
- Peña Fernández, A., Van Hertem, T., Exadaktylos, V., Norton, T., Vranken, E. & Berckmans, D. (2016), ‘Monitoring of litter quality in broiler commercial farms using camera-based technology’, *2016 American Society of Agricultural and Biological Engineers Annual International Meeting, ASABE 2016* pp. 2–11.
URL: <https://elibrary.asabe.org/abstract.asp?aid=47237>
- Peña Fernández, A., Youssef, A., Demmers, T. & Berckmans, D. (2017), ‘Modelling bio-aerosol concentration in commercial poultry houses’, *2017 ASABE Annual International Meeting* .
URL: <https://elibrary.asabe.org/abstract.asp?aid=48106>
- Peña Fernández et al. (2018a), ‘Real-time monitoring of broiler flock’s welfare status using camera-based technology’, *Biosystems Engineering* **173**, 103–114.
URL: <https://www.sciencedirect.com/science/article/pii/S153751101730483X>
- Peña Fernández et al. (2018b), ‘Real-time monitoring of indoor particulate matter concentration in a commercial broiler house’, *elibrary.asabe.org* .
URL: <https://elibrary.asabe.org/abstract.asp?aid=49718>
- Peña Fernández et al. (2019a), ‘Real-time model predictive control of human bodyweight based on energy intake’, *Applied Sciences (Switzerland)* **9**(13).
URL: www.mdpi.com/journal/applsci
- Peña Fernández et al. (2019b), ‘Real-time modelling of individual weight response to feed supply for fattening pigs’, *Computers and Electronics in Agriculture* **162**, 895–906.
URL: <https://www.sciencedirect.com/science/article/pii/S0168169918318866>
- Silva, M., Exadaktylos, V., Ferrari, S., Guarino, M., Aerts, J. M. & Berckmans, D. (2009), ‘The influence of respiratory disease on the energy envelope dynamics of pig cough sounds’, *Computers and Electronics in Agriculture*

69(1), 80–85.

URL: <https://www.sciencedirect.com/science/article/pii/S0168169909001227>

Tambuyzer, T., De Waele, T., Chiers, K., Berckmans, D., Goddeeris, B. M. & Aerts, J. M. (2014), ‘Interleukin-6 dynamics as a basis for an early-warning monitor for sepsis and inflammation in individual pigs’, *Research in Veterinary Science* **96**(3), 460–463.

URL: <http://dx.doi.org/10.1016/j.rvsc.2014.03.014> <https://www.sciencedirect.com/science/article/pii/S0034528814000897>

Tambuyzer, T., De Waele, T., Meyfroidt, G., Van den Berghe, G., Goddeeris, B., Berckmans, D. & Aerts, J.-M. (2012), ‘Dynamic algorithms of biomarkers for monitoring infection/inflammation processes in pigs’, *Journal of Critical Care* **27**(3), e3–e4.

URL: http://scholar.cu.edu.eg/?q=rhfayed/files/blok_isah2011_vol1.pdf#page=185

Tambuyzer, T., Guiza, F., Boonen, E., Meersseman, P., Vervenne, H., Hansen, T. K., Bjerre, M., Van den Berghe, G., Berckmans, D., Aerts, J. M. & Meyfroidt, G. (2017), Heart rate time series characteristics for early detection of infections in critically ill patients, Technical Report 2.

Thanh, V. T., Vranken, E. & Berckmans, D. (2008), ‘Data-based mechanistic modelling of three-dimensional temperature distribution in ventilated rooms filled with biological material’, *Journal of Food Engineering* **86**(3), 422–432.

Tong, Q., Romanini, C. E., Exadaktylos, V., McGonnell, I. M., Berckmans, D., Bahr, C., Bergoug, H., Roulston, N., Guinebretière, M., Etteradossi, N., Verhelst, R. & Demmers, T. G. (2016), ‘Detection of embryo mortality and hatch using thermal differences among incubated chicken eggs’, *Livestock Science* **183**, 19–23.

URL: <https://www.sciencedirect.com/science/article/pii/S1871141315300305>

Topalovic, M., Exadaktylos, V., Aerts, J. M., Troosters, T., Decramer, M., Berckmans, D. & Janssens, W. (2015), Exploring expiratory flow dynamics to understand chronic obstructive pulmonary disease, in ‘Communications in Computer and Information Science’, Vol. 511, Springer Verlag, pp. 233–245.

Topalovic, M., Exadaktylos, V., Decramer, M., Troosters, T., Berckmans, D. & Janssens, W. (2014), ‘Modelling the dynamics of expiratory airflow to describe chronic obstructive pulmonary disease’, *Medical and Biological*

- Engineering and Computing* **52**(12), 997–1006.
URL: <https://www.researchgate.net/publication/266307268>
- Volkaerts, D., Youssef, A., Ozcan, S. E., Exadaktylos, V. & Berckmans, D. (2012), ‘Modelling greenhouse temperature and humidity dynamics in order to develop an energy saving model-based control strategy’, *Acta Horticulturae* **952**, 87–92.
URL: https://www.actahort.org/books/952/952_8.htm
- Wolfs, V., Meert, P. & Willems, P. (2015), ‘Modular conceptual modelling approach and software for river hydraulic simulations’, *Environmental Modelling and Software* **71**, 60–77.
URL: <http://dx.doi.org/10.1016/j.envsoft.2015.05.010>
- Wolfs, V., Villazon, M. F. & Willems, P. (2013), Development of a semi-automated model identification and calibration tool for conceptual modelling of sewer systems, Technical Report 1.
- Wolfs, V. & Willems, P. (2013), ‘A data driven approach using Takagi-Sugeno models for computationally efficient lumped floodplain modelling’, *Journal of Hydrology* **503**, 222–232.
URL: <https://www.sciencedirect.com/science/article/pii/S0022169413005982>
- Wolfs, V. & Willems, P. (2014), ‘Development of discharge-stage curves affected by hysteresis using time varying models, model trees and neural networks’, *Environmental Modelling and Software* **55**, 107–119.
URL: <http://dx.doi.org/10.1016/j.envsoft.2014.01.021>
- Wolfs, V. & Willems, P. (2017), ‘Modular Conceptual Modelling Approach and Software for Sewer Hydraulic Computations’, *Water Resources Management* **31**(1), 283–298.
URL: <https://www.sciencedirect.com/science/article/pii/S1364815215001577>
- Youssef et al. (2014a), ‘Modelling and quantification of the thermoregulatory responses of the developing avian embryo: Electrical analogies of a physiological system’, *Journal of Thermal Biology* **44**(1), 14–19.
URL: <http://dx.doi.org/10.1016/j.jtherbio.2014.05.006>

Youssef et al. (2014b), ‘Non-contact, motion-tolerant measurements of chicken (*Gallus gallus*) embryo heart rate (HR) using video imaging and signal processing’, *Biosystems Engineering* **125**, 9–16.
URL: <http://dx.doi.org/10.1016/j.biosystemseng.2014.06.014>

Lancaster authors (Table 4)

Ampadu, B., Chappell, N. & Kasei, R. (2013), ‘Rainfall-riverflow modelling approaches: making a choice of data-based mechanistic modelling approach for data limited catchments: a review.’, *Canadian Journal of Pure and Applied Sciences* **7**(3), 2571–2580.

URL: www.cjpas.net

Beven, K. (2007), *Environmental modelling: An uncertain future?*

URL: <https://www.taylorfrancis.com/books/9781315273501>

Beven, K. (2012), *Rainfall-Runoff Modelling: The Primer: Second Edition*.

URL: www.wiley.com/wiley-blackwell.

Cross, P. & Ma, X. (2013), ‘State dependent parameter model-based condition monitoring for wind turbines’, *10th International Conference on Condition Monitoring and Machinery Failure Prevention Technologies 2013, CM 2013 and MFPT 2013* **2**, 845–856.

URL: <http://eprints.lancs.ac.uk/id/eprint/63318>

Deepprose, L. M. C. (2018), Speleothem climate capture of the Neanderthal demise, PhD thesis.

Gu, J., Feng, Z. H., Ma, X. & Ni, J. F. (2011), ‘Proportional-integral-plus control of robotic excavator arm utilising state-dependent parameter model’, *Applied Mechanics and Materials* **48-49**, 1323–1327.

URL: <https://www.scientific.net/AMM.48-49.1323>

- Gu, J., Ma, X., Ni, J.-f. & Sun, L.-n. (2012), ‘Linear and nonlinear control of a robotic excavator’, *Journal of Central South University* **19**(7), 1823–1831.
URL: <https://link.springer.com/article/10.1007/s11771-012-1215-y>
- Gu, J. & Seward, D. (2009), ‘Digital servo control of a robotic excavator’, *Chinese Journal of Mechanical Engineering (English Edition)* **22**(2), 190–197.
URL: <http://www.cnki.com.cn/Article/CJFDTotal-YJXB200902006.htm>
- Gu, J. & Seward, D. (2012), ‘Improved control of intelligent excavator using proportional-integral-plus gain scheduling’, *Huagong Xuebao/CIESC Journal* **60**(2), 444–449.
- Halliday, S. J., Wade, A. J., Skeffington, R. A., Neal, C., Reynolds, B., Rowland, P., Neal, M. & Norris, D. (2012), ‘An analysis of long-term trends, seasonality and short-term dynamics in water quality data from Plynlimon, Wales’, *Science of the Total Environment* **434**, 186–200.
- Jones, T. D. & Chappell, N. A. (2014), ‘Streamflow and hydrogen ion interrelationships identified using data-based mechanistic modelling of high frequency observations through contiguous storms’, *Hydrology Research* **45**(6), 868–892.
URL: <https://iwaponline.com/hr/article-pdf/45/6/868/370888/868.pdf>
- Keery, J., Binley, A., Crook, N. & Smith, J. W. (2007), ‘Temporal and spatial variability of groundwater-surface water fluxes: Development and application of an analytical method using temperature time series’, *Journal of Hydrology* **336**(1-2), 1–16.
URL: <https://www.sciencedirect.com/science/article/pii/S0022169406006354>
- Leedal, D., Weerts, A. H., Smith, P. J. & Beven, K. J. (2013), ‘Application of data-based mechanistic modelling for flood forecasting at multiple locations in the Eden catchment in the National Flood Forecasting System (England and Wales)’, *Hydrology and Earth System Sciences* **17**(1), 177–185.
URL: www.hydrol-earth-syst-sci.net/17/177/2013/

- Ockenden, M. C. & Chappell, N. A. (2011), ‘Identification of the dominant runoff pathways from data-based mechanistic modelling of nested catchments in temperate UK’, *Journal of Hydrology* **402**(1-2), 71–79.
URL: <https://www.sciencedirect.com/science/article/pii/S0022169411001600>
- Page, T., Smith, P. J., Beven, K. J., Jones, I. D., Elliott, J. A., Maberly, S. C., Mackay, E. B., De Ville, M. & Feuchtmayr, H. (2018), ‘Adaptive forecasting of phytoplankton communities’, *Water Research* **134**, 74–85.
URL: <https://www.sciencedirect.com/science/article/pii/S0043135418300605>
- Romanowicz, R. J., Kiczko, A. & Pappenberger, F. (2007), ‘A State Dependent Nonlinear Approach to Flood Forecasting’, *Publs. Inst. Geophys. Pol. Acad. Sc.*, **7**, 223–230.
URL: http://www.academia.edu/download/30255653/romanowicz_al.pdf
- Stefaniak, E. (2016), Macroecology: Exploring Forest Investment Strategies, PhD thesis.
- Trapero, J. R., Fildes, R. & Davydenko, A. (2011), Nonlinear identification of judgmental forecasts effects at SKU level, Technical Report 5.
URL: <http://www.lums.lancs.ac.uk/publications/LUMShomepage:http://www.lums.lancs.ac.uk/>
- Trapero, J. R., Kourentzes, N. & Martin, A. (2015), ‘Short-term solar irradiation forecasting based on dynamic harmonic regression’, *Energy* **84**, 289–295.
URL: <https://www.sciencedirect.com/science/article/pii/S0360544215002777>
- Zhang, D., Cross, P., Ma, X. & Li, W. (2013), ‘Improved control of individual blade pitch for wind turbines’, *Sensors and Actuators, A: Physical* **198**, 8–14.
URL: <http://dx.doi.org/10.1016/j.sna.2013.04.020> <https://www.sciencedirect.com/science/article/pii/S0924424713001842>