

Yehia Elkhatib – CV

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 <https://yelkhatib.github.io/>

I am an experienced researcher working in two important and increasingly complementary fields: distributed systems and computer networking. I am currently focusing on developing decision support for cloud infrastructures and novel network architectures, among other research topics. Both the EU and the EPSRC have funded my research, and I currently hold a total of £735K in research funding.

One of my top priorities is to produce high impact publications, and thus I have been consistently effective at publishing in top venues (over 1600 citations recorded on Google Scholar, h-index=18, i10-index=30), e.g. IMC (acceptance rate of 23%), IFIP Networking (25%), EuroS&P (18%), CloudCom (18%), ICWSM (19%), ASONAM (17%), MODELS (19%), ICDCS (19%), IEEE ToCC (impact factor of 5.967), ACM ToMM (2.870), and FGCS (5.768). Moreover, I am driven by real-world challenges and thus have been publishing in premier interdisciplinary venues such as EMS (impact factor of 4.552) and JEM (4.865). My research has received widespread media attention, with coverage from news outlets such as BBC, Times, Slashdot, Daily Mail, Science Daily, Naked Security, Business Standard, and Communications of the ACM. I see it as a duty and an honour to be actively involved in community activities and, as such, I serve on a number of editorial boards, TPCs and organising committees.

I also take great pride in having substantial teaching experience. My student feedback has consistently been outstanding for both undergraduate and postgraduate modules (4.42, 4.38, 4.19, and 4.00 out of 5.00). Examples of anonymous student feedback include:

- *“I don't think the module needs improvement. Yehia has done an amazing job teaching it.”*
- *“Very considerate teacher who gave us a detailed understanding.”*
- *“I loved how knowledgeable Yehia was.”*
- *“Yehia's comment on weekly assignments were extremely clear and fairly evaluated.”*
- *“The lectures were interesting and usually very engaging. Lecturer made a point of engagement with the class.”*
- *“I wanted to thank Yehia for his guidance and support. I have very much appreciated his willingness and openness to discussing general queries and concerns that I have.”*
- *“Yehia was very good at explaining things and making the students feel comfortable in asking more questions.”*
- *“Yehia is enthusiastic and obviously knows the domain really well, quite inspiring.”*

I have supervised 30+ undergraduate and MSc student projects, during which I engaged closely with the students with attention to detail and quality. I have also examined a similar amount of student projects.

Education

- PhD (2011) in Network Measurement & Grid Computing, Lancaster University, UK. Thesis: *Monitoring, Analysing and Predicting Network Performance in Grids.*
- MSc, with Distinction (2006) in Networking & Internet Systems, Lancaster University, UK. Dissertation: *Message Propagation in Ad-hoc Wireless Networks.*
- BSc (2002) in Computer & Systems Engineering, Alexandria University, Egypt. Dissertation: *Adaptable WAP Services.*

Teaching

2018 – present	Building Big Data Systems (MSc module) – <i>mean student feedback 3.62</i>
2016 – present	Distributed Systems (3 rd year undergraduate module) – <i>4.18</i>
2015 – 2018	Fundamentals of Data Science (MSc module) – <i>3.91</i>
2011 – 2012	Advanced Distributed Systems (MSc module)
2011	Advanced Networking and the Internet (MSc module)
2010	Computer Science Innovation (seminar for 3 rd year undergraduates)
2010	Advanced Networking (guest lectures for 3 rd year undergraduates)

Experience

Aug 2019 – present	Senior Lecturer (Associate Professor) , SCC, Lancaster University.
Jan 2018 – present	Visiting Professor , École de Technologie Supérieure Montreal.
Oct 2015 – Jul 2019	Lecturer (Assistant Professor) , SCC, Lancaster University.
Nov 2010 – Sept 2015	Senior Research Associate , SCC, Lancaster University. Worked on EVOp (NERC) and FIC2 (FP7) projects.
Feb 2014 – Feb 2015	Technical Consultant on the EVOKES project (NERC/BIS).
Nov 2006 – Jan 2010	Research Assistant , Computing Dept, Lancaster University. Worked on EC-GIN (FP6) project.
Sep 2005 – Sep 2006	Network Surveillance Agent , Orange Business Services.

Research Funding

Apr 2018 – Mar 2021 Principal Investigator Total: £775,259 Held: £388,701	<i>Adaptive Brokerage for the Cloud (ABC)</i> EPSRC grant on the selection of cloud services through the introduction of a smart and continuously adaptive cloud broker. <i>Collaborators:</i> University of St Andrews, Adobe, CEH, Satalia
Jan 2015 – Dec 2018 Co-Investigator Total: €1,032,221 Held: £341,850	<i>Declarative and Interoperable Overlay Networks, Applications to Systems of Systems (Dionasys)</i> CHIST-ERA grant on abstracting the dynamic linking of heterogeneous network overlays using generative languages. <i>Collaborators:</i> Neuchatel (Switzerland), Bordeaux (France) and Cluj-Napoca (Romania)
Jan 2016 – Mar 2016 Co-Investigator Total: £5,000	<i>Pervasive Health</i> Internal GCRF seed funding <i>Collaborators:</i> Lancaster University Ghana

Research Team

<i>Post-doctoral Researchers:</i>		<i>First subsequent employment</i>
Jul 2017 – Aug 2020	Dr. Abdessalam Elhabbash	Lecturer, Lancaster University
May 2018 – Dec 2018	Dr. Maria Salama	Post-doc, Lancaster University
Feb 2017 – Jul 2018	Dr. Vicent Sanz Marco	Associate Professor, Osaka University
Jul 2016 – Oct 2016	Dr. Vatsala Nundloll	Post-doc, Lancaster University
Mar 2016 – Jul 2016	Dr. Bholanath Surajbali	Innovation Lab Coordinator, MCB Group

PhD Students (current):

Jan 2021 – present	Matheus Aparecido do Carmo Alves
Apr 2020 – present	Shiyam Alalmaei
Jan 2020 – present	Sumayyah Alsubhi
Jan 2020 – present	Dominic Lindsay

PhD Students (graduated):

Nov 2015 – May 2019	Dr. Assylbek Jumagaliyev	<i>First employment</i> Software Engineer, Zühlke Engineering Ltd
March 2013 – Jun 2017	Dr. Faiza Samreen	Post-doc, Lancaster University

Service

General Chair:

- 2014-2018 CrossCloud
- 2015 Lancaster University Data Analysis Competition

Journal Editor:

- 2015 – present Journal of Internet Services and Applications thematic series on Cross-Cloud Computing (JISA-CCC)
- 2016 – present Research Ideas and Outcomes (RIO) journal
- 2016 – 2017 Journal of Internet Services and Applications thematic series on Complex Distributed Systems and Systems of Systems (JISA-SoS)

Track Chair:

- 2020 Global Conference on the IoT (GCAIoT)

Doctoral Symposium Chair:

- 2020 Conference on Utility and Cloud Computing (UCC)

TPC Member:

- 2016 – present Conference on Network and Service Management (CNSM)
- 2021 IFIP Networking
- 2021 FlexNGIA
- 2018 Conference on Distributed Applications and Interoperable Systems (DAIS)
- 2018 Symposium on Applied Computing (SAC)
- 2017 – 2018 Consumer Communications and Networking Conference (CCNC)
- 2017 – 2018 Workshop on Approaches, Analyses, and Performance Issues in Virtualized Environments and Software Defined Networking (PVE-SDN)
- 2017 Conference on COMMunication Systems & NETWORKS (COMSNETS)
- 2017 Conference on emerging Networking EXperiments and Technologies (CoNEXT) student workshop
- 2017 Symposium on Integrated Network and Service Management (IM)
- 2017 Workshop on Future of Internet Transport (FIT)
- 2015 – 2017 Information-centric Networking (ICN)
- 2015 – 2017 Workshop on Security for Emerging Distributed Network Technologies (DISSECT)
- 2015 Embracing Global Computing in Emerging Economies (EGC2015)

Journal reviewer:

- 2020 – present IEEE Transactions on Computers
- 2020 – present Software: Practice and Experience
- 2020 – present The Computer Journal
- 2019 – present ACM Transactions on Software Engineering & Methodology
- 2018 – present International Journal of Network Management
- 2018 – present IEEE Communications Magazine
- 2018 – present IEEE Letters of the Computer Society
- 2018 – present World Wide Web Journal
- 2017 – present IEEE Transactions on Network and Service Management
- 2017 – present Cluster Computing
- 2016 – present IEEE Transactions on Mobile Computing
- 2016 – present IEEE Internet Computing
- 2013 – present Computer Networks
- 2014 – 2017 Future Generation Computer Systems
- 2017 IEEE Pervasive Computing

2017 IEEE Transactions on Cloud Computing
 2016 Journal of Grid Computing
 2016 Journal of Internet Services and Applications
 2013 – 2015 IEEE Transactions on Multimedia

PhD Examiner (External):

Jan 2019 Ansar Rafique (KU Leuven)
 July 2018 Wajdi Hajji (Loughborough University)

PhD Examiner (Internal):

July 2019 Martin Bor (Lancaster University)
 Dec 2017 Matthew J. Edwards (Lancaster University)

Internal Service:

2019 – present Distributed Systems Group Lead
 2019 – present PhD Admissions Officer
 2016 – 2019 Athena SWAN Lead
I planned a very ambitious 4-year plan of how to improve gender equality issues at different levels of the School (academic and administrative staff, student experience, recruitment, development, etc.). We were awarded the Bronze Award on first submission.
 2015 – 2019 Postgraduate Teaching Assessment (Exams) Officer
 2015 – 2016 Equality, Diversity, and Inclusion Officer

Invited Talks

Mar 2020	University of Portsmouth, UK	“Knowledge and DSLs for Cloud Brokerage Decision Support”, invited talk
May 2018	Université de Rennes 1, France	“Using ML to Simplify IaaS Decision Making”, invited talk
Feb 2018	Université de Sherbrooke, Canada	“Decision Support for Cloud Instance Selection”, invited talk
Feb 2018	Concordia University, Canada	“Decision Support for Cloud Instance Selection”, invited talk
July 2017	Qatar Computing Research Institute, Qatar	“Cloudy with a chance of heavy Fog”, invited talk
Mar 2017	The British Council, Oman	“Delivering Fog Services over Micro-clouds”, invited presentation at The British Council’s Innovation Policy Dialogue Symposium
Feb 2017	University of Birmingham, UK	“Cloudy with a chance of heavy Fog”, invited talk
Jan 2017	Cambridge Computer Laboratory, UK	“The Grape Cluster and Delivering Fog Computing for Development”, invited talk at GAIA Community Networks: Sustainability & Regulation Workshop
Mar 2015	The British Council, Egypt	“Managing Environmental Data in the Cloud”, invited talk at the UK-Egypt Joint Workshop on Agriculture and Water Management
Feb 2015	The Kazakh-British Technical University, Kazakhstan	“Building Cloud Applications for Challenged Networks”, opening keynote presentation at the Workshop on Embracing Global Computing in Emerging Economies
Nov 2012	Oak Ridge National Laboratory, TN, USA	“The Environmental Virtual Observatory pilot project”, invited keynote at the Knowledge Systems for Sustainability (KSS) partnership
Sept 2012	University of Colima, Mexico	“Using the Cloud for Research, Education and Decision Support”, opening keynote presentation at the International Congress on Information Technology
June 2011	University of Oslo, Norway	“Constructing an Environmental Virtual Observatory Using the Cloud”, invited seminar

Publications (in reverse chronological order)

More than 60 peer-reviewed publications, H-index = 18, i10-index = 30 (as of Oct 2020).
Google Scholar profile [here](#). All PDF downloads are available [from my webpage](#).

2020

Abdessalam Elhabbash, Vatsala Nundloll, Yehia Elkhatib, Gordon S Blair, and Vicent Sanz Marco, “An Ontological Architecture for Principled and Automated System of Systems Composition”, In International Symposium on Software Engineering for Adaptive and Self-Managing Systems (**SEAMS**), Jun 2020. [**AR=28%**]

Faiza Samreen, Gordon S Blair, and Yehia Elkhatib, “Transferable Knowledge for Low-cost Decision Making in Cloud Environments”, **IEEE Transactions on Cloud Computing**, May 2020. [**IF=5.967**]

Vicent Sanz Marco, Ben Taylor, Zheng Wang, and Yehia Elkhatib, “Optimizing Deep Learning Inference on Embedded Systems Through Adaptive Model Selection”, **ACM Transactions on Embedded Computing Systems**, 19(1), Feb 2020. [**IF=1.368**]

Vatsala Nundloll, Yehia Elkhatib, Abdessalam Elhabbash, and Gordon S Blair, “An Ontological Framework for Opportunistic Composition of IoT Systems”, In International Conference on Informatics, IoT, and Enabling Technologies (**IEEE ICIoT**), Doha, Qatar, February 2020.

2019

Maria Salama, Yehia Elkhatib, and Gordon S Blair, “IoTNetSim: A Modelling and Simulation Platform for End-to-End IoT Services and Networking”, In International Conference on Utility and Cloud Computing (**IEEE/ACM UCC**), ACM, pages 251-261, December 2019. [**AR=33.3%**]

Abdessalam Elhabbash, Assylbek Jumagaliyev, Gordon S Blair, and Yehia Elkhatib, “SLO-ML: A Language for Service Level Objective Modelling in Multi-cloud applications”, In International Conference on Utility and Cloud Computing (**IEEE/ACM UCC**), pages 241-250, December 2019. [**AR=33.3%**]

Abdessalam Elhabbash, Yehia Elkhatib, Gordon S Blair, Yuhui Lin, Adam Barker, and John Thomson, “Envisioning SLO-driven Service Selection in Multi-cloud Applications”, In Workshops of International Conference on Utility and Cloud Computing (**IEEE/ACM UCC**), pages 9-14, December 2019.

Taiyang Guo, Rami Bahsoon, Tao Chen, Abdessalam Elhabbash, Faiza Samreen, and Yehia Elkhatib, “Cloud Instance Selection Using Parallel K-Means and AHP”, In Workshops of International Conference on Utility and Cloud Computing (**IEEE/ACM UCC**), pages 71-76, December 2019.

Raziel Carvajal Gomez, Yérom-David Bromberg, Yehia Elkhatib, Laurent Réveillère, and Etienne Rivière, “Emergent Overlays for Adaptive MANET Broadcast”, In International Symposium on Reliable Distributed Systems (**IEEE SRDS**), October 2019. [**AR=26.5%**]

Assylbek Jumagaliyev, and Yehia Elkhatib, “A Modelling Language to Support Evolution of Multi-Tenant Cloud Data Architectures”, In International Conference on Model Driven Engineering Languages and Systems (**ACM/IEEE MODELS**), September 2019. [**AR=19%**]

Blesson Varghese, Philipp Leitner, Suprio Ray, Kyle Chard, Adam Barker, Yehia Elkhatib, Herry Herry, Cheol-Ho Hong, Jeremy Singer, Fung Po Tso, Eiko Yoneki, and Mohamed Faten Zhani, “Cloud Futurology”, **IEEE Computer**, 52(9), pages 68-77, September 2019. [**IF=3.564**]

Yehia Elkhatib, Alastair L Gemmell, Claudia Vitolo, Mark E Wilkinson, Eleanor B Mackay, Barbara J Percy, Gordon S Blair, and Robert J Gurney, “Widening the Circle of Engagement Around Environmental Issues using Cloud-based Tools”, In International Conference on Distributed Computing Systems (**IEEE ICDCS**), pages 1404-1415, July 2019. [**AR=19.6%**]

Assylbek Jumagaliyev, and Yehia Elkhatib, “CadaML: A Modeling Language for Multi-Tenant Cloud Application Data Architectures”, In International Conference on Cloud Computing (**IEEE CLOUD**), pages 430-434, July 2019. [**AR=18%**]

Saifeddine Aidi, Mohamed Faten Zhani, and Yehia Elkhatib, "On Optimizing Backup Sharing Through Efficient VNF Migration", In Workshop on Approaches, Analyses, and Performance Issues in Virtualized Environments and Software Defined Networking (**IEEE PVE-SDN**), pages 60-65, June 2019.

Abdessalam Elhabbash, Yehia Elkhatib, Gordon S Blair, Yuhui Lin, and Adam Barker, "A Framework for SLO-driven Cloud Specification and Brokerage", In Workshops of International Symposium on Cluster, Cloud and Grid Computing (**IEEE/ACM CCGrid**), pages 666-667, May 2019.

Yehia Elkhatib, Faiza Samreen, and Gordon S Blair, "Same Same, but Different: A Descriptive Intra-aaS Differentiation", In Workshops of International Symposium on Cluster, Cloud and Grid Computing (**IEEE/ACM CCGrid**), pages 690-695, May 2019.

Muhammad Usama, Junaid Qadir, Aunn Raza, Hunain Arif, Kok-Lim Alvin Yau, Yehia Elkhatib, Amir Hussain, and Ala Al-Fuqaha, "Unsupervised Machine Learning for Networking: Techniques, Applications and Research Challenges", **IEEE Access**, 7, pages 65579-65615, May 2019. **[IF=4.098]**

Abdessalam Elhabbash, Faiza Samreen, James Hadley, Yehia Elkhatib, "Cloud Brokerage: A Systematic Survey", **ACM Computing Surveys**, 51(6), pages 119:1-119:28, January 2019. **[IF=6.131]**

Luis M Vaquero, Felix Cuadrado, Yehia Elkhatib, Jorge Bernal-Bernabe, Satish N Srirama, Mohamed Faten Zhani, "Research Challenges in Nextgen Service Orchestration", **Future Generation Computer Systems**, 90, pages 20-38, January 2019. **[IF=5.768]**

2018

Abdessalam Elhabbash, Gordon Blair, Gareth Tyson, and Yehia Elkhatib, "Network-conscious Edge Service Adaptation", In International Conference on Network and Service Management (**IEEE CNSM**), Rome, Italy, November 5-9 2018. **[AR=15.9%]**

Saifeddine Aydi, Mohamed Faten Zhani, and Yehia Elkhatib, "On Improving Service Chains Survivability Through Efficient Backup Provisioning", In International Conference on Network and Service Management (**IEEE CNSM**), Rome, Italy, November 5-9 2018. **[AR=15.9%]**

Nadir Ghrada, Mohamed Faten Zhani, Yehia Elkhatib, "Price and Performance of Cloud-hosted Virtual Network Functions: Analysis and Future Challenges", In the Workshop on Approaches, Analyses, and Performance Issues in Virtualized Environments and Software Defined Networking (**IEEE PVE-SDN**), Montreal, Canada, June 29 2018.

Ben Taylor, Vicent Sanz Marco, Willy Wolff, Yehia Elkhatib, Zheng Wang, "Adaptive Deep Learning Model Selection on Embedded Systems", In the Conference on Languages, Compilers, and Tools for Embedded Systems (**ACM SIGPLAN / SIGBED LCTES**), Philadelphia, PA, US, June 18 - 22 2018. **[AR=27%]**

2017

Assylbek Jumagaliyev, Jon Whittle, and Yehia Elkhatib, "Using DSML for Handling Multi-tenant Evolution in Cloud Applications", In the International Conference on Cloud Computing Technology & Science (**IEEE CloudCom**), Hong Kong, China, December 11 - 14 2017. **[AR=18%]**

Yehia Elkhatib, "Navigating Diverse Data Science Learning: Critical Reflections Towards Future Practice", In the Workshop on Curricula and Teaching Methods in Cloud Computing, Big Data, and Data Science, Hong Kong, China, December 11 2017.

Yehia Elkhatib, Geoff Coulson, and Gareth Tyson, "Charting an Intent Driven Network", In the International Conference on Network and Service Management (**IEEE CNSM**), Tokyo, Japan, November 26 - 30 2017. **[AR=15%]**

Walid Magdy, Yehia Elkhatib, Gareth Tyson, Sagar Joglekar, and Nishanth Sastry, "Fake it till you make it: Fishing for Catfishes", In the International Conference on Advances in Social Networks (**IEEE/ACM ASONAM**), Sydney, Australia, July 31 - August 03 2017. **[AR=14%]**

Tomasz Lyko and Yehia Elkhatib, "A Preliminary Look into Unsolicited Mobile App Traffic", **EuroSys** conference, Belgrade, Serbia, April 23-26 2017. [AR=15%]

Yehia Elkhatib, Barry F Porter, Heverson B Ribeiro, Mohamed Faten Zhani, Junaid Qadir, and Etienne Rivière. "On Using Micro-Clouds to Deliver the Fog". In **IEEE Internet Computing**, March 2017. [IF=2.891]

Jonathan P Tennant, Jonathan M. Dugan, Daniel Graziotin, Damien C Jacques, François Waldner, Daniel Mietchen, Yehia Elkhatib, Lauren B Collister, Christina K Pikas, Tom Crick, Paola Masuzzo, Anthony Caravaggi, Devin R Berg, Kyle E. Niemeyer, Tony Ross-Hellauer, Sara Mannheimer, Lillian Rigling, Daniel S Katz, Bastian Greshake, Josmel Pacheco-Mendoza, Nazeefa Fatima, Marta Poblet, Marios Isaakidis, Dasapta Erwin Irawan, Sebastien Renaut, Christopher R Madan, Lisa Matthias, Jesper Norgaard Kjaer, Daniel Paul O'Donnell, Cameron Neylon, Sarah Kearns, Manojkumar Selvaraju, and Julien Colomb. "A multi-disciplinary perspective on emergent and future innovations in peer review". In **F1000Research**, 2017.

2016

James Hadley, Utz Roedig, and Yehia Elkhatib, "Using Context Switches for VM Scaling", In International Performance Computing and Communications Conference (**IEEE IPCCC**), Las Vegas, Nevada, USA, December 9-11 2016. [AR=27%]

Assylbek Jumagaliyev, Jon Whittle, and Yehia Elkhatib, "Evolving Multi-Tenant Cloud Applications Using Model-Driven Engineering", In the Workshop on Models and Evolution (**ACM/IEEE ME**), October 2 2016.

Yehia Elkhatib, "Mapping Cross-Cloud Systems: Challenges and Opportunities", In the Workshop on Hot Topics in Cloud Computing (**USENIX HotCloud**), June 20-21 2016. [AR=14%]

Faiza Samreen, Yehia Elkhatib, Matthew Rowe, and Gordon S Blair, "Daleel: Simplifying Cloud Instance Selection Using Machine Learning", In the Network Operations and Management Symposium (**IEEE/IFIP NOMS**), Istanbul, Turkey, April 25-29 2016. [AR=23%]

Gareth Tyson, Yehia Elkhatib, Nishanth Sastry, and Steve Uhlig, "Measurements and Analysis of a Major Porn 2.0 Portal", In **ACM Transactions on Multimedia Computing, Communications, and Applications** (ToMM), Volume 12, Issue 2, Pages 35:1--35:25, March 2016. [IF=2.870]

Sylvain Frey, Yehia Elkhatib, Awais Rashid, Karolina Follis, John Vidler, Nicholas Race, and Christopher Edwards, "It Bends but Would it Break? Topological Analysis of BGP Infrastructures in Europe", In European Symposium on Security and Privacy (**IEEE EuroS&P**), Saarbrücken, Germany, March 21-24 2016. [AR=18%]

2015

Gordon S Blair, Yérom-David Bromberg, Geoff Coulson, Yehia Elkhatib, Laurent Réveillère, Heverson B. Ribeiro, Etienne Rivière, and François Taïani, "Holons: Towards a systematic approach to composing systems of systems", In the Workshop on Adaptive and Reflective Middleware (**ACM/IFIP/USENIX ARM**), Vancouver, Canada, December 2015.

Yehia Elkhatib, "Building Cloud Applications for Challenged Networks", In Embracing Global Computing in Emerging Economies, **Springer Communications in Computer and Information Science**, Volume 514, Pages 1-10, November 2015.

James Hadley, Yehia Elkhatib, Gordon S Blair, and Utz Roedig, "MultiBox: Lightweight Containers for Vendor-Independent Multi-cloud Deployments", In Embracing Global Computing in Emerging Economies, **Springer Communications in Computer and Information Science**, Volume 514, Pages 79-90, November 2015.

Mark Wilkinson, Eleanor B Mackay, Paul Quinn, Marc Stutter, Keith Beven, Christopher J A Macleod, Mark Maklin, Yehia Elkhatib, Barbara J Percy, Claudia Vitolo, and Philip M Haygarth, "A cloud based tool for knowledge exchange on local scale flood risk", **Journal of Environmental Management**, Volume 161, Pages 38-50, September 2015. [IF=4.865]

Yehia Elkhatib, Gareth Tyson, and Arjuna Sathiaseelan, "Does the Internet deserve everybody?", In Workshop on Ethics in Networked Systems Research (**ACM SIGCOMM NetEthics**), London, UK, August 21 2015.

Mu Mu, Mark Rouncefield, Yehia Elkhatib, Steven Simpson, Jacco Taal, and Nicholas Race, "Ethical challenges in collaborative storytelling", In Workshop on Ethics in Networked Systems Research (**ACM SIGCOMM NetEthics**), London, UK, August 21 2015.

Sheila Greene, Penny J Johnes, John P Bloomfield, Sim M. Reaney, Russell S Lawley, Yehia Elkhatib, Jim Freer, Nick Odoni, Christopher J A Macleod, and Barbara J Percy, "A Geospatial Framework to Support Integrated Biogeochemical Modelling in the United Kingdom", **Environmental Modelling & Software**, Volume 68, Pages 219-232, June 2015. **[IF=4.552]**

Geoff Coulson, Gordon S Blair, Yehia Elkhatib, and Andreas Mauthe, "The design of a generalised approach to the programming of systems of systems", In IEEE WoWMoM workshop on Autonomic and Opportunistic Computing, Boston, MA, USA, June 14 2015.

Gareth Tyson, Yehia Elkhatib, Nishanth Sastry, and Steve Uhlig, "Are People Really Social on Porn 2.0?", In the Conference on Web and Social Media (**AAAI ICWSM**), Oxford, UK, May 26-29 2015. **[AR=13%]**

Sylvain Frey, Awais Rashid, Yehia Elkhatib, Karolina Follis, John Vidler, Nicholas Race, and Christopher Edwards, "Resilience of the Internet: the Case of the BGP Backbone", In the Symposium on Security and Privacy (**IEEE S&P**), San Jose, USA, May 2015.

Yehia Elkhatib and Christopher Edwards, "Passive Network Awareness as a Means for Improved Grid Scheduling", **Springer Journal of Grid Computing**, Volume 13, Issue 2, Pages 275-291, April 2015. **[IF=3.288]**

Claudia Vitolo, Yehia Elkhatib, Dominik Reusser, Christopher J A Macleod, and Wouter Buytaert, "Web Technologies for Environmental Big Data", **Environmental Modelling & Software**, Volume 63, Pages 185-198, January 2015. **[IF=4.552]**

2014

Yehia Elkhatib, Rebecca Killick, Mu Mu, and Nicholas Race, "Just browsing? Understanding user journeys in online TV", In **ACM Multimedia** Conference, Orlando, USA, November 3-7 2014. **[AR=20%]**

Yehia Elkhatib, Mu Mu, and Nicholas Race, "Dataset on Usage of a Live & VoD P2P IPTV Service", In the International Conference on Peer-to-Peer Computing (**IEEE P2P**), London, UK, September 8-12 2014. **[AR=19%]**

Nathalie Cabel, Yehia Elkhatib, Robert Seeliger, Christoph Ziegler, and Michael Eble, "Social Connected TV Platform by FI-Content: An Open Toolbox for Creative Developers", In International Conference on Interactive Experiences for TV and Online Video (**ACM TVX**), Newcastle upon Tyne, UK, June 25-27 2014. **[AR=25%]**

Yehia Elkhatib, Gareth Tyson, and Michael Welzl, "Can SPDY Really Make the Web Faster?", In **IFIP Networking**, Trondheim, Norway, June 2-4 2014. **[AR=25%]**

2013

Gareth Tyson, Yehia Elkhatib, Nishanth Sastry, and Steve Uhlig, "Demystifying Porn 2.0: A look into a major adult video streaming website", In the Internet Measurement Conference (**ACM SIGCOMM IMC**), Barcelona, Spain, October 23-25 2013. **[AR=23%]**

Panagiotis Georgopoulos, Yehia Elkhatib, Matthew Broadbent, Mu Mu, and Nicholas Race, "Towards Network-wide QoE Fairness using OpenFlow-assisted Adaptive Video Streaming", In the Workshop on Future Human-Centric Multimedia Networking (**ACM SIGCOMM FhMN**), Hong Kong, China, August 16 2013.

Yehia Elkhatib, Gordon S Blair, and Bholanathsingh Surajbali, "Experiences of Using a Hybrid Cloud to Construct an Environmental Virtual Observatory", In the Workshop on Cloud Data and Platforms (**EuroSys CloudDP**), Prague, Czech Republic, April 14 2013.

2012

Yehia Elkhatib, Gordon S Blair, Alastair L Gemmell, and Robert J Gurney, "Building a Cloud Infrastructure for a Virtual Environmental Observatory", In the American Geophysical Union (**AGU**) Fall Meeting, San Francisco, USA, December 2012.

Claudia Vitolo, Wouter Buytaert, Yehia Elkhatib, Alastair L Gemmell, Sim M Reaney, and Keith Beven, "Cloud-enabled Web Applications for Environmental Modelling", In the American Geophysical Union (**AGU**) Fall Meeting, San Francisco, USA, December 2012.

Gareth Tyson, Sebastian Kaune, Simon Miles, Yehia Elkhatib, Andreas Mauthe, and Adel Taweel, "A Trace-Driven Analysis of Caching in Content-Centric Networks", In the International Conference on Computer Communication Networks (**ICCCN**), Munich, Germany, July 30 - August 2 2012.

[AR=30%]

Yehia Elkhatib, Gordon S Blair, Alastair L Gemmell, Robert J Gurney, John W Watkins, and Gwyn Rees, "EVO: A Virtual Observatory to Bridge Environmental Disciplines Using Cloud Computing", In the International Conference on Environmental Science and Technology (**EST**), Volume 2, 2012.

2011

Gordon S Blair and Yehia Elkhatib, "A Cloud-based Virtual Observatory for Environmental Science", In the **OpenWater** Symposium, Delft, April 19 2011

2010

Tiejun Ma, Yehia Elkhatib, Michael Mackay, and Christopher Edwards, "Characterising A Grid Site's Traffic", In the Workshop on Data Intensive Distributed Computing (**HPDC DIDC**), Chicago, IL, USA, June 22 2010.

2009

Thomas Bocek, Yehia Elkhatib, Fabio Victora Hecht, David Hausheer, and Burkhard Stiller, "CompactPSH: An Efficient Transitive TFT Incentive Scheme for Peer-to-Peer Networks", In the Conference on Local Computer Networks (**IEEE LCN**), Zürich, Switzerland, October 20-23 2009.

[AR=31%]

Yehia Elkhatib, Christopher Edwards, Michael Mackay, and Gareth Tyson, "Providing Grid Schedulers with Passive Network Measurements", In the Workshop on Grid and P2P Systems and Applications (**ICCCN GridPeer**), San Francisco, CA, USA, August 2-6 2009.

2008

Peng Gao, Tao Liu, Yanming Chen, Xingyao Wu, Yehia Elkhatib, and Christopher Edwards, "The Measurement and Modeling of a P2P Streaming Video Service", In the International Conference on Networks for Grid Applications (**GridNets**), Beijing, China, October 8-10 2008.

Gareth Tyson, Andreas Mauthe, Thomas Plagemann, and Yehia Elkhatib, "Juno: Reconfigurable Middleware for Heterogeneous Content Networking", In the Workshop on Next Generation Networking Middleware (**Manweek NGNM**), Samos Islands, Greece, September 22-26 2008.

2007

Yehia Elkhatib and Christopher Edwards, "A Survey-based Study of Grid Traffic", In the Conference on Networks for Grid Applications (**GridNets**), Lyon, France, October 2007.