

## Dr Mu Mu

---

CONTACT INFORMATION	NW303, Newton Building, St. George's Avenue Faculty of Arts, Science and Technology The University of Northampton NN2 6JD, Northampton, United Kingdom	<i>Office:</i> 01604893643 <i>E-mail:</i> mu.mu@northampton.ac.uk <i>WWW:</i> <a href="http://www.drmu.net">http://www.drmu.net</a>
RESEARCH INTERESTS	Cognitive networking, quality of user experience, multimedia systems, software-defined networking, information retrieval, deep learning	
ACADEMIC AND PROFESSIONAL EXPERIENCE	<b>The University of Northampton</b> , Northampton, United Kingdom <i>Lecturer, Senior Lecturer</i> <b>October, 2015 - present</b> <ul style="list-style-type: none"><li>• Lead BSc Computing module: Media Technology and BSc Business Computing module: Quality and User-Centred Systems</li><li>• Supervise BSc Computing, BSc Business Computing, and MSc Computing dissertations</li><li>• Supervise PhD students</li></ul> <b>Lancaster University</b> , Lancaster, United Kingdom <i>Senior Research Associate</i> <b>January, 2013 - September, 2015</b> <ul style="list-style-type: none"><li>• Lead project management and research of three European Commission supported projects (EC FP7 STEER, EC FP7 FI-Content2 and EC FP7 SECCRIT)</li></ul> <i>Research Associate</i> <b>August, 2011 - December, 2012</b> <ul style="list-style-type: none"><li>• Lead project management and research of two UK and European Commission supported projects (EC FP7 P2P-Next and EPSRC MediaCityUK FIRM)</li></ul> <i>Teaching Assistant</i> <b>October, 2012 - September, 2015</b> <ul style="list-style-type: none"><li>• Teach BSc Computing module: Advanced Networking</li></ul> <b>Deutsche Telekom</b> , Darmstadt, Germany <i>Internship</i> <b>October, 2005 - October, 2006</b> <ul style="list-style-type: none"><li>• R&amp;D of seamless mobility and QoE for German Ministry for Education and Research project: ScaleNet</li></ul>	
EDUCATION	<b>Lancaster University</b> , Lancaster, United Kingdom PhD in Computer Science, July 2011 <ul style="list-style-type: none"><li>• Dissertation Topic: "Parametric Assessment of Video Quality in Content Distribution Networks"</li></ul> <b>TU-Darmstadt</b> , Darmstadt, Germany Master of Science, Information and Communication Engineering, October 2006 <ul style="list-style-type: none"><li>• Dissertation Topic: "User-Centric End-to-End QoS for Next Generation Network Services"</li></ul> <b>Nanjing University of Aeronautics and Astronautics</b> , Nanjing, China Bachelor of Engineering, Automation Engineering, July 2002	
HONOURS AND AWARDS	PhD studentship, Agilent Technologies, 2003 Best Paper Award, IEEE/ACM International Symposium on Quality of Service (IWQoS), 2015 Santander Staff Research Award and Innovation Fund, The University of Northampton, 2016 Grand Challenge Award, IEEE International Conference on Multimedia and Expo (ICME), 2016	

Fawcett, L., Mu, M., Hareng, B., and Race, N., REF: Enabling Rapid Experimentation of Contextual Network Management using Software Defined Networking, under revision for IEEE Communications Magazine. July 2017

Mu, M., Bird, J., Fawcett, L., Stokking, H., and Race, N., Closing the Gap: Human Factors in Cross-device Media Synchronization, accepted for the IEEE Journal of Selected Topics in Signal Processing. 2017

Mu, M., Broadbent, M., Hart, N., Farshad, A., Race, N., Hutchison, D. and Ni, Q., A Scalable User Fairness Model for Adaptive Video Streaming over SDN-Assisted Future Networks, in IEEE Journal on Selected Areas in Communications, vol.34, issue.8, Aug 2016

Sani, Y., Mu, M., Mauthe, A., and Edwards, C., A Bio-Inspired HTTP-based Adaptive Streaming Player, in Proceedings of 2016 IEEE International Conference on Multimedia and Expo (ICME 2016), Seattle, USA, July 2016

Mu, M., Simpson, S., Race, N., Niamut, O., Koot, G., Kaptein, R., Taal, J. and Mori, L., "Let's share a story": Socially-enhanced Multimedia Storytelling, in IEEE Multimedia, July 2015

Mu, M., Simpson, S., Farshad, A., Ni, Q., and Race, N., User-level Fairness Delivered: Network Resource Allocation for Adaptive Video Streaming, in Proceedings of 2015 IEEE/ACM International Symposium on Quality of Service (IWQoS), Portland, USA, June 2015

Farshad, A., Georgopoulos, P., Broadbent, M., Mu, M. and Race, N., Leveraging SDN to Provide an In-network QoE Measurement Framework, in Proceedings of IEEE INFOCOM 2015 Workshop on Communication & Networking Techniques for Contemporary Video, April 2015

Mu, M., Simpson, S., Bojko, C., Broadbent, M., Brown, J., Mauthe, A., Race, N. and Hutchison, D. Storisphere: From TV Watching to Community Story Telling, in IEEE Communications Magazine. vol.51, issue.8, Aug 2013

Georgopoulos, P., Elkhatib, Y., Broadbent, M., Mu, M. and Race, N. Towards Network-wide QoE Fairness using Openflow-assisted Adaptive Video Streaming, in Proceedings of the 2013 ACM SIGCOMM workshop on Future Human-centric Multimedia Networking p. 15-20, July 2013

Mu, M., Knowles, W., Georgopoulos, P., Simpson, S., Cerqueira, E., Race, N., Mauthe, A. and Hutchison, D., Quality Evaluation in Peer-to-Peer IPTV Services, 2013 Data Traffic Monitoring and Analysis: From Measurement, Classification and Anomaly Detection to Quality of Experience. Berlin: Springer, p. 302-319 18 p. (Lecture Notes in Computer Science; vol. 7754)

Mu, M., Ishmael, J., Knowles, W., Rouncefield, M., Race, N., Stuart, M. and Wright, G. P2P-Based IPTV Services: Design, Deployment, and QoE Measurement, in IEEE Transactions on Multimedia. vol.14, issue.6, p. 1515-1527, Nov 2012

Mu, M., Romaniak, P., Mauthe, A., Leszczuk, M., Janowski, L. and Cerqueira, E., Framework for the Integrated Video Quality Assessment, in Springer Multimedia Tools and Applications. vol.61, issue.3, p. 787-817, Dec 2011

Mu, M., Ishmael, J., Mitchell, K., Race, N. and Mauthe, A., Multimodal QoE Evaluation in P2P-based IPTV Systems, in Proceedings of the 19th ACM International Conference on Multimedia. New York, NY, USA: ACM, p. 1321-1324, Nov 2011

Mu, M., Mauthe, A., Haley, R. and Garcia, F., Discrete Quality Assessment in IPTV Content Distribution Networks, in Elsevier Signal Processing: Image Communication. vol.26, Mar 2011