Curriculum Vitae - Chu Luo - Aug 17, 2017

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Nationality: Chinese

RESEARCH INTEREST

I strive for new discoveries in computer science and mathematics with my unwavering devotion. Currently, I am interested in the following areas:

- Ubiquitous Computing: Smartphone Sensing Systems, Mobile Apps
- Software Engineering: Mobile App Testing, Formal Methods
- Multimedia: Mobile Video/Audio-Based Apps
- Artificial Intelligence: Context-Aware Techniques
- Discrete Mathematics (only in leisure time): Combinatorics, Graph Theory, Number Theory

EDUCATION

Feb. 2017 -	Ph. D. in Computer Science (Transferred In)	University of Melbourne
	Supervisors: Vassilis Kostakos, Eduardo Velloso, Jorge Goncalves	
Apr. 2015 - Sep. 2016	Ph. D. in Computer Science (Transferred Out)	University of Oulu
	Supervisors: Vassilis Kostakos, Jorge Goncalves	
Sep. 2013 - Nov. 2014	M. Sc. in Software Engineering with Distinction	University of Southampton
Sep. 2009 - Jul. 2013	B. Eng. in Software Engineering	Shanghai Jiao Tong University

PUBLICATION

- [19] Simon Klakegg, Niels van Berkel, Aku Visuri, Hanna-Leena Huttunen, Simon Hosio, **Chu Luo**, Jorge Goncalves abd Denzil Ferreira. 2017. Designing a Context-Aware Assistive Infrastructure for Elderly Care. Adjunct Proceedings of the 2017 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp17). (Accepted).
- [18] Chu Luo, Miikka Kuutila, Simon Klakegg, Denzil Ferreira, Huber Flores, Jorge Goncalves, Mika Mäntylä and Vassilis Kostakos. 2017. TestAWARE: A Laboratory-Oriented Testing Tool for Mobile Context-Aware Applications. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)*. (Accepted).
- [17] Zhanna Sarsenbayeva, Denzil Ferreira, Niels van Berkel, **Chu Luo**, Mikko Vaisanen, Vassilis Kostakos and Jorge Goncalves. 2017. Vision-Based Happiness Inference: A Feasibility Case-Study. *Adjunct Proceedings of the 2017 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp17)*. (Accepted).

- [16] Chu Luo, Henri Koski, Mikko Korhonen, Jorge Goncalves, Theodoros Anagnostopoulos, Shin?Ichi Konomi, Simon Klakegg and Vassilis Kostakos. 2017. Rapid Clock Synchronisation for Ubiquitous Sensing Services Involving Multiple Smartphones. Adjunct Proceedings of the 2017 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp17). (Accepted).
- [15] Aku Visuri, Niels van Berkel, **Chu Luo**, Jorge Goncalves, Denzil Ferreira, Vassilis Kostakos. 2017. Challenges in Quantified-Self: Encouraging Self-Reported Data Logging During Recurrent Smartphone Usage. *Proceedings of the 31st British Human Computer Interaction Conference (BHCI'17)*. (Accepted).
- [14] Simon Klakegg, Niels van Berkel, Aku Visuri, **Chu Luo**, Jorge Goncalves, Simo Hosio, Hanna-Leena Huttunen, Denzil Ferreira. 2017. Informing Caregivers Through an Assistive Tool: An Investigation of Elderly Care Metrics. *Proceedings of the 31st British Human Computer Interaction Conference (BHCI'17)*. (Accepted).
- [13] Aku Visuri, Niels van Berkel, Jorge Goncalves, **Chu Luo**, Denzil Ferreira, Vassilis Kostakos. 2017. Predicting Interruptibility for Manual Data Collection: A Cluster-Based User Model. *Proceedings of the 19th International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI'17).* (Accepted).
- [12] Simon Klakegg, Jorge Goncalves, Niels van Berkel, **Chu Luo**, Simo Hosio, Vassilis Kostakos. 2017. Towards Commoditised Near Infrared Spectroscopy. *Proceedings of the ACM SIGCHI Conference on Designing Interactive Systems (DIS'17)*, 515-527. URL: https://doi.org/10.1145/3064663.3064738
- [11] Jorge Goncalves, Zhanna Sarsenbayeva, Niels van Berkel, **Chu Luo**, Simo Hosio, Sirkka Rissanen, Hannu Rintamäki and Vassilis Kostakos. 2017. Tapping Task Performance on Smartphones in Cold Temperature. *Interacting with Computers*, 29, 3, 355-367. URL: http://dx.doi.org/10.1093/iwc/iww029
- [10] Denzil Ferreira, Christian Schuss, **Chu Luo**, Jorge Goncalves, Vassilis Kostakos and Timo Rahkonen. 2016. Indoor Light Scavenging on Smartphones. *Proceedings of the 15th International Conference on Mobile and Ubiquitous Multimedia (MUM '16)*. URL: https://doi.org/10.1145/3012709.3017603
- [9] Huber Flores, Denzil Ferreira, **Chu Luo**, Vassilis Kostakos, Pan Hui, Rajesh Sharma, Sasu Tarkoma and Yong Li. 2016. Social-aware Device-to-Device Communication: A Contribution for Edge and Fog Computing? *Adjunct Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp16), 1466-1471. URL: http://dx.doi.org/10.1145/2968219.2968589*
- [8] Chu Luo, Miikka Kuutila, Simon Klakegg, Denzil Ferreira, Huber Flores, Jorge Goncalves, Vassilis Kostakos and Mika Mäntylä. 2016. How to Validate Mobile Crowdsourcing Design? Leveraging Data Integration in Prototype Testing. Adjunct Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp16), 1448-1453. URL: http://dx.doi.org/10.1145/2968219.2968586
- [7] Simon Klakegg, **Chu Luo**, Jorge Goncalves, Simo Hosio and Vassilis Kostakos. 2016. Instrumenting Smartphones with Portable NIRS. *Adjunct Proceedings of the 2016 ACM Interna-*

- tional Joint Conference on Pervasive and Ubiquitous Computing (UbiComp16), 618-623. URL: http://dx.doi.org/10.1145/2968219.2971590
- [6] Chu Luo, Angelos Fylakis, Juha Partala, Simon Klakegg, Jorge Goncalves, Kaitai Liang, Tapio Seppänen and Vassilis Kostakos. 2016. A Data Hiding Approach for Sensitive Smartphone Data. Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp?16), 557-568. URL: http://dx.doi.org/10.1145/2971648.2971686
- [5] Niels van Berkel, **Chu Luo**, Theodoros Anagnostopoulos, Denzil Ferreira, Jorge Goncalves, Simo Hosio and Vassilis Kostakos. 2016. A Systematic Assessment of Smartphone Usage Gaps. *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems (CHI '16)*, 4711-4721. URL: http://dx.doi.org/10.1145/2858036.2858348
- [4] Simo Hosio, Denzil Ferreira, Jorge Goncalves, Niels van Berkel, **Chu Luo**, Muzamil Ahmed, Huber Flores and Vassilis Kostakos. 2016. Monetary Assessment of Battery Life on Smartphones. *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems (CHI '16)*, 1869-1880. URL: http://dx.doi.org/10.1145/2858036.2858285
- [3] Jiyou Li and **Chu Luo**. 2016. The simplified weighted sum function and its average sensitivity. *Information Processing Letters* 116, 5, 331-336. URL: http://dx.doi.org/10.1016/j.ipl.2016.01.002
- [2] Niels van Berkel, **Chu Luo**, Denzil Ferreira, Jorge Goncalves and Vassilis Kostakos. 2015. The Curse of Quantified-Self: An Endless Quest for Answers. *Adjunct Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp?15)*, 973-978. URL: http://dx.doi.org/10.1145/2800835.2800946
- [1] Chu Luo. 2014. Video Summarization for Object Tracking in the Internet of Things. Next Generation Mobile Apps, Services and Technologies (NGMAST), 8th International Conference on. IEEE. URL: http://dx.doi.org/10.1109/NGMAST.2014.20

PREPRINT

- [3] Chu Luo. 2015. A Mathematical Theorem about Northern Europe and Its Proof. URL: http://dx.doi.org/10.13140/RG.2.1.2026.3121
- [2] Chu Luo. 2015. Solving a Mathematical Problem in Square War: a Go-like Board Game. arXiv Preprint. URL: http://arxiv.org/abs/1509.09240
- [1] Jiyou Li, **Chu Luo** and Zeying Xu. 2015. The Minimal and Maximal Sensitivity of the Simplified Weighted Sum Function. arXiv Preprint. URL: http://arxiv.org/abs/1505.00887

CONFERENCES ATTENDED

- [6] ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2016), Heidelberg, Germany, September 12-16, 2016.
- [5] ACM SIGCHI Conference on Human Factors in Computing Systems (CHI), San Jose, USA, May 7-12, 2016.
- [4] ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2015), Osaka, Japan, September 7-11, 2015.

- [3] 17th International Conference on Human-Computer Interaction with Mobile Devices and Services, Copenhagen, Denmark, August 24-27, 2015.
- [2] Algebraic Combinatorics Workshop at University of Science and Technology of China, Hefei, China, November 26-29, 2014.
- [1] 8th International Conference on Next Generation Mobile Apps, Services and Technologies (NG-MAST2014), Oxford, UK, September 10-12, 2014.

REVIEWING

ACM IMWUT, Future Generation Computer Systems, CSCW, Microprocessors and Microsystems, NordiCHI, International Journal of Human-Computer Studies, UbiComp, DIS, CHI, AMI.

PROGRAMMING SKILLS

ActionScript, C, C++, C#, Cg/HLSL, Event-B, Html5, IATEX, Java, JavaScript, Matlab, Mathematica, PHP, Promela, Python, R, SQL, UnrealScript

LANGUAGES

Mandarin Chinese: Native Speaker

English: IELTS Overall 7.0, Listening 8.0, Reading 7.0, Writing 7.0, Speaking 6.5

Finnish: Level A1.1

MEDIA MENTIONS

The Economist: Buddy, can you spare a Watt? (30/4/2016)

TUTORING

- University of Melbourne
 - 2017 July. Graphics and Interaction (COMP30019)
 - 2017 July. Mobile Computing Systems Programming (COMP90018)
- ACM Summer School
 - 2017 July. ACM Summer School on Crowdsourcing, Suzhou
- University of Oulu
 - 2016 Jan. Mobile and Social Computing (521147S)

ERDŐS NUMBER

4

Jiyou Li and **Chu Luo**. 2016. The simplified weighted sum function and its average sensitivity. *Information Processing Letters* 116, 5, 331-336. URL: http://dx.doi.org/10.1016/j.ipl.2016.01.002

Jiyou Li, David B. Chandler and Qing Xiang. 2010. Permutation polynomials of degree 6 or 7 over finite fields of characteristic 2. Finite Fields and Their Applications 16, 6, 406-419.

Richard M. Wilson and Qing Xiang. 1997. Constructions of Hadamard difference sets. *Journal of Combinatorial Theory, Series A* 77, 1, 148-160.

Paul Erdős, Joel C. Fowler, Vera T. Sós and Richard M. Wilson. 1985. On 2-designs. *Journal of Combinatorial Theory, Series A* 38, 2, 131-142.