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| **ITiCSE 2013 CONFERENCE Programme** | | | |
| **Monday 1st July 2013** | | | |
| 8.00  12.00 | University of Kent, Canterbury  **Registration**  Venue: Keynes College lobby | | |
| 8.45  9.00 | Welcome and Opening Remarks  **Professor Keith Mander**  Deputy Vice Chancellor, University of Kent  Venue: KLT1 | | |
| 9.00  10.00 | Keynote Address  **Professor Simon Peyton Jones**  *The Computing at School Working Group*  Venue: KLT1 | | |
| 10.00  10.45 | **Coffee break**  **Poster presentations**  Venue: Keynes lobby | | |
| 10.45  11.15  11.45  12.15 | Paper session 1a  Venue: KLT1  *An Informatics Perspective on Computational Thinking*  James Walden, Maureen Doyle, Rudy Garns & Zachary Hart  North Kentucky State University, USA  *Computational Thinking in Educational Activities*  Lindsay Gouws, Karen Bradshaw & Peter Wentworth  Rhodes University, South Africa  *From Theory to Practice: NP-completeness for every student*  Pierluigi Crescenzi, Università degli Studi di Firenze, Italy  Emma Enström & Viggo Kann, KTH Royal Institute of Technology, Sweden | Paper session 1b  Venue: KLT5  *Design Eye: an interactive learning environment based on the SOLO Taxonomy*  Safurah Abdul Jalil, Beryl Plimmer, Ian Warren & Andrew Luxton-Reilly, University of Auckland, New Zealand  *Interactive Educational Simulations for Promoting the Comprehension of Basic Compiler Construction Concepts*  Daniel Rodríguez-Cerezo, Mercedes Gómez-Albarrán & José-Luis Sierra-Rodríguez, Complutense University of Madrid, Spain  *Voice interactive learning: A framework and evaluation*  M. del Puerto Paule-Ruiz, Victor M. Álvarez-García & Juan-Ramon Pérez-Pérez, University of Oviedo, Spain  Moisés Riestra-González, Accenture Analytics, Spain | Panel Session 1  Venue: KLT6  *Transforming Computer Science in Schools*  Chris Stephenson, Computer Science Teachers association, USA,  Simon Humphries, Computing at Schools Working Group, UK  Judith Gal-Ezer, The Open University of Israel,  Julie King, Australian Curriculum, Assessment and Reporting Authority |
| 12.15  1.30 | **Lunch**  Venue: Rutherford dining hall | | |
| 2.00  5.00 | Teachers’ workshop session  Venue: Cornwallis SW101  *Introduction to teaching programming with Greenfoot and Java*  Michael Kölling, University of Kent, UK | | |
| 1.30  2.00  2.30  3.00 | Paper session 2a  Venue: KLT1  *Teaching and Assessing Programming Fundamentals for Non Majors with Visual Programming*  William Honig, Loyola University, Chicago, USA  *Programming Process Visualizer: A Proposal of the Tool for Students to Observe Their Programming Process*  Yoshiaki Matsuzawa, Shizuoka University, Japan  Ken Okada, Keio University, Japan  Sanshiro Sakai, Shizuoka University, Japan  *A Hierarchical Framework for Mapping and Quantitatively Assessing Program and Learning Outcomes*  Joy Reed & Hong Zhang  Armstrong Atlantic State University, USA | Paper session 2b  Venue: KLT5  *Concepts for Mobile Programming*  Aaron Gordon, Metropolitan State University of Denver, USA  *Mobile Computing and Robotics in One Course: Why Not?*  Stan Kurkovsky, Central Connecticut State University, USA  *Learning Elsewhere: Tales from an Extracurricular Game Development Competition*  Chris Johnson, University of Wisconsin, Eau Claire, USA, Anson Call & Steve Herrnstadt, Iowa State University, USA | Working Group Reports  Venue: KLT6  *User Requirements and Design Strategies for Open Source Interactive Computer Science eBooks*  **Leaders: Tom Naps,** University of Wisconsin Oshkosh, USA, **Ari Korhonen, Aalto University, Finland**  *The McCracken study – 12 years on*  Leader: Ian Utting, University of Kent, UK  *Cybersecurity, Women and Minorities: How to Succeed in the Career*  Leaders: Rose Shumba, University of Maryland College, USA & Carol Taylor, Eastern Washington University, USA *One Thousand and Twenty Four Multiple Choice Questions for CS1/CS2* **Leaders: Raymond Lister, University of Technology, Sydney, Australia & Kate Sanders, Rhode Island College, USA** |
| 3.00  3.45 | **Coffee break**  **Poster Presentations**  Venue: Keynes lobby | | |
| 3.45  4.15  4.45  5.15 | Paper session 3a  Venue: KLT1  *Introducing Computing Students to Scientific Experimentation*  Karen Renaud, University of Glasgow, UK  *Using CloudSim to learn cloud computing architecture/system concepts in a graduate course*  Marta Beltrán, Antonio Guzmán & Marcos Palomero, Universidad Rey Juan Carlos, Spain  *From Cluster to Cloud to Appliance*  David Malan  Harvard University, USA | Paper session 3b  Venue: KLT5  *Teaching Internationalization – Internationally*  Jesse Heines, University of Massachusetts Lowell, USA Krzysztof Jassem, Adam Mickiewicz University, Poland  *Teaching spreadsheets to visually impaired students in an environment similar to a mainstream class*  Dino Capovilla & Peter Hubwieser, Technische Universität München, Germany  *Teaching Data Structures with beSocratic*  Sam Bryfczynski & Roy Pargas, Clemson University, USA,  Melanie Cooper, Michigan State University, USA, Michael Klymkowsky, University of Colorado, Boulder, USA,  Brian Dean, Clemson University, USA | Paper session 3c  Venue: KLT6  *Issues with a Course That Emphasizes Self-Direction*  Ville Isomöttönen, Ville Tirronen & Michael Cochez, University of Jyväskylä, Finland  *Scaffolding Students' Learning using Test My Code*  Arto Vihavainen, Thomas Vikberg, Matti Luukkainen & Martin Pärtel, University of Helsinki, Finland  *Massive Increase in Eager TA’s: Experiences from Extreme Apprenticeship-based CS1*  Arto Vihavainen, Thomas Vikberg, Matti Luukkainen & Jaakko Kurhila, University of Helsinki, Finland |
|  | **Free Evening** | | |

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| **ITiCSE 2013 CONFERENCE Programme** | | | |
| **Tuesday 2nd July 2013** | | | |
| 9.00  10.00 | Keynote  **Chris Wildsmith**  *Kinetic – A learning environment within business*  Venue: KLT1 | | |
| 10.00  10.45 | **Coffee Break**  **Poster Presentations**  Venue: Keynes lobby | | |
| 10.45  11.15  11.45 | Paper Session 4a  Venue: KLT1  *Peer Instruction in Computer Science at Small Liberal Arts Colleges*  Leo Porter, Skidmore College, USA  Saturino Garcia & John Glick, University of San Diego, USA, Andrew Matusiewicz, Skidmore College, USA, Cynthia Taylor, Oberlin College, USA  *Using Industry-Inspired Guidelines to Increase Students’ Pair Programming Effectiveness*  Mark Zarb & Janet Hughes, University of Dundee, UK & John Richards, IBM T.J. Watson Research Centre, USA | Paper Session 4b  Venue: KLT5  *Assessment of Programming: Pedagogical Foundations of exams*  Judy Sheard, Monash University, Simon, University of Newcastle, Angela Carbone, Monash University, Daryl D’Souza & Margaret Hamilton, RMIT University, Australia  *Optimizing Grading through Feedback Loops*  Tommy MacWilliam & David Malan, Harvard University, USA | Paper session 4c  Venue: KLT6  *A Portable Graphics Library for Introductory CS*  Eric Roberts & Keith Schwarz, Stanford University, USA  *Anonymous JavaScript Algorithm Visualization Library*  Ville Karavirta, Aalto University, Finland & Clifford A. Shaffer, Virginia Tech, USA |
| 11.45  11.55 | **Short break** | | |
| 11.55  12.35  12.55 | Paper session 5a  Venue: KLT1  *Producing Multimedia Pills to Stimulate Student Learning and Engagement*  Elena Sanchez-Nielsen, University of La Laguna, Spain  *Why Does Place Matter?*  Daniel Knox & Sally Fincher  University of Kent, UK | Paper session 5b  Venue: KLT5  *On the Differences Between Correct Student Solutions*  Andrew Luxton-Reilly, Paul Denny, Diana Kirk, Ewen Tempero & Se-Young Yu, University of Auckland, New Zealand  *A study of the influence of code-tracing problems on code-writing skills*  Amruth Kumar, Ramapo College of New Jersey, USA | Paper session 5c  Venue: KLT6  *Using case studies to design and deliver technology-centered computing education courses: an innovative approach from an undergraduate Information Systems program in Singapore*  Ilse Baumgartner  Singapore Management University, Singapore  *Five Years of Taps on Shoulders to PATS on Backs in ICT*  Angela Carbone, Bella Ross & Jason Ceddia, Monash University, Australia |
| 1.00pm | **Lunch**  To be collected from Keynes lobby | | |
| 1.30  5.30 | **Excursions** | | |
|  | **Free evening** | | |

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| **ITiCSE 2013 CONFERENCE Programme** | | | |
| **Wednesday 3rd July 2013** | | | |
| 9.00  10.00 | Keynote  **Wing Commander Andy Green OBE MA RAF**  *The fastest man on earth*  Venue: KLT1 | | |
| 10.00  10.45 | **Coffee Break**  **Poster Presentations**  Venue: Keynes lobby | | |
| 10.45  11.15  11.45  12.15 | Paper session 6a  Venue: KLT1  *Capstone Project Online Assessment Tool Without the Paper Work*  Vivienne Farrell, Graham Farrell, Paul Kindler, Gil Ravalli & David Hall, Swinburne University, Australia  *Project-based Learning within a Large-scale Interdisciplinary Research Effort*  Maria Gorlatova, John Sarik, Peter Kinget, John Kymissis, Gil Zussman, Columbia University, USA  *A Comparison of Two Iterations of a Software Studio Course Based on Continuous Integration*  William Billingsley, NICTA, Australia  Jim Steele, The University of Queensland, Australia | Paper Session 6b  Venue: KLT5  *Commercial Aspects Of Contract Cheating*  Robert Clark, Thomas Lancaster, Birmingham City University, UK  *Exploring the effects of Collaboration Scripts embedded in a Distributed Pair Programming System*  Despina Tsompanoudi, Maya Satratzemi & Stelios Xinogalos  University of Macedonia, Greece  *Investigation into the Personal Epistemology of Computer Science Students*  Roger McDermott, Robert Gordon University, UK, Mats Daniels & Åsa Cajander, Uppsala University, Sweden  Cary Laxer, Rose-Hulman Institute of Technology, USA, Iain Pirie, Robert Gordon University, UK | Panel session 2  Venue: KLT6  *Beyond Computer Science: Computational Thinking Across Disciplines*  Amber Settle, DePaul University, Debra Goldberg, University of Colorado Boulder, Valerie Barr, Union College, USA |
| 12.15  1.30 | **Lunch**  Venue: Rutherford dining hall | | |
| 1.30  2.00  2.30  3.00 | Paper session 7a  Venue: KLT1  *Assistance in computer programming learning using educational data mining and learning analytics*  Carlos Fernandez-Medina, Jaun Ramon Pérez-Pérez, Victor Álvarez-García, M. del Puerto Paule-Ruiz. University of Oviedo, Spain  *Towards Improving Programming Habits to Create Better Computer Science Course Outcomes*  Jaime Spacco, Knox College, USA  Davide Fossati, Carnegie Mellon University in Qatar, Kelly Rivers & John Stamper, Carnegie Mellon University, USA  *CodeSpells: Embodying the Metaphor of Wizardry for Programming*  Sarah Esper, Stephen Foster & William G. Griswold, University of California, San Diego, USA | Paper Session 7b  Venue: KLT5  *Making Computing Interesting To School Students: Teachers’ Perspectives*  Jonathon Black, Jo Brodie, Paul Curzon, Christie Myketiak & Peter McOwan, Queen Mary University of London, UK  *High School Students’ Perspective to University CS1*  Antti-Jussi Lakanen & Ville Isomöttönen, University Of Jyväskylä, Finland  *Nationwide Exam as a Tool to Improve New Curriculum*  Iris Zur Bargury, Ministry of Education, Israel | Tips and Techniques  Venue: KLT6  *The Royal Society of Edinburgh/British Computer Society Computing Science Exemplification project*  Jeremy Scott, The Royal Society of Edinburgh/British Computer Society  *The Influence of Students Distribution on their Grades*  Carlos Herrero, Marisa Llorens, Javier Oliver, Josep Silva & Salvador Tamarit, Universitat Politècnica de València, Spain  *Interactive Lectures Using Quick Response Codes*  Bobby Law, Glasgow Caledonian University, UK  *Dr. Horrible's Fork Bomb: A Lab for Integrating Security Issues in CS2*  Elizabeth Patitsas & Daniel Levy, University of Toronto, Canada  *First, Do No Harm: A Curricular Approach to Reliability*  Duane Buck, Otterbein University, USA  *A Location Prediction Project on Mobile Devices*  Chris McDonald, University of Western Australia  *Sofia: The Simple Open Framework for Inventive Android Applications*  Stephen Edwards & Anthony Allevato, Virginia Tech, USA  *Reducing novice C programmers' frustration through improved runtime error checking*  Matthew Heinsen Egan & Chris McDonald, University of Western Australia  *Jump-Starting Team-Based Learning in the Computer Science Classroom*  Adrian German, Indiana University, USA |
| 3.00  3.30 | **Coffee break**  Venue: Keynes lobby | | |
| 3.30  4.00  4.30  5.00 | Paper session 8a  Venue: KLT1  *Serious Toys II: Teaching networks, Protocols and Algorithms*  Yvon Feaster, Clemson University, Farha Ali, Lander University, Jiannan Zhai & Jason Hallstrom, Clemson University, USA  *Evaluating Student Understanding of Core Concepts in Computer Architecture*  Leo Porter, Skidmore College, USA, Saturino Garcia, University of San Diego, USA  Hung-Wei Tseng University of California, San Diego, USA  Daniel Zingaro, University of Toronto, Canada  *Using Network Packet Generators and Snort Rules for Teaching Denial of Service Attacks*  Zouheir Trabelsi & Latifa Al Ketbi, UAE University, United Arab Emirates | Paper session 8b  Venue: KLT5  *Concept Specification Maps - displaying content structures*  Marc Berges & Peter Hubweiser,  Technische Universität München, Germany  *Applying Software Engineering in CS1*  Wei Kian Chen & Brian Hall, Champlain College, USA  *Games for Teaching Software Development*  Bruce Scharlau, University of Aberdeen, UK | Panel session 3  Venue: KLT6  *Hot Fusion: Music, Art, and Computer Science Education*  Jennifer Burg, Wake Forest University, Susan Reiser & Wayne Kirby, UNC Asheville, USA |
| 5.00  5.30 | **Closing Address & Awards**  Venue: KLT1 | | |
| 6.30 | **Buses depart Keynes Bus Stop for the**  **Conference banquet** | | |