Contents

Keynote Presentations

Mona Akmal (USA)
  Director of Product/Curriculum, Code.org 16

Greg Cross
  Chairman and CEO, PowerByProxi 16

Paul Fenwick (AUS)
  Lifehacker 16

John Hosking
  Dean of Science, Auckland Uni 16

Henry Lane
  Co-founder, EPIC Technology Hub 16

Sir Ralph Norris
  ex-CEO AirNZ, ASB Bank, CBA 17

Mary Quin
  CEO, Callaghan Innovation 17

Ian Taylor
  Founder, Animation Research Ltd 17

Peter Dengate Thrush (USA)
  Internet governance expert 17
Presentations

The Authorised Biography of a Complex System
Bevan Arps

The Developer Ecosystem
Curtis Bailey, Keran McKenzie

Just how critical was your Criticality Assessment?
Stephen Coates

Raising Capital in Five Minutes
Nicolás Erdödy

SKA: The Ultimate Big Data Project
Nicolás Erdödy

Business Success with Supplier Engagement Models
Rob England

Tipu: Successful Continual Improvement
Rob England

How Technology Profits the Non-Profits
Henrietta Hall, Marcus Harvey

The State of the State’s ICT Programme Management
Adrian Hendry

Raising the ICT Game for Boards of Directors
Robin Johansen

ICT Transformation: More than meets the eye
Mei Fern Johnson

Evolving in the Cloud Era
James Knapp

Identity Verification: without people, you get dogs
Joanne Knight

Plugging IT into Life
Dave Lane
Depression "To Be or not To Be"
Keith Lightfoot

Rescuing 111
Neil McDougall

Innovating with Natural Language Processing
Alyona Medelyan

Big Data? Don't Panic: Automation to the Rescue
Dave Morris

iBeacon and the Internet of Things
Mark Pascall

The Digital Revolution
Rodger Perkins

The Future of ICT Security
Andy Prow

ICT Project Failure: The Human Factor
Peter Salmon

The Privacy Pendulum Swings Back
Rick Shera

Key Elements to Sealing the Deal
Stuart van Rij

Coding Bootcamps: Growing the tech talent pool
Joshua Vial

Legal Trends in tech that impact you
Michael Wigley
Contents

Full papers (quality assured)

Embedding Indigenous Accelerated Learning Techniques into Programming
   Damian Adamski 29-34

Techniques for Aligning IT Education with Industry Demand
   Mehdi Asgarkhani, Alison Clear 35-39

Framing IT Capstone Development Projects with Design Science Research principles
   Clare Atkins 40-44

DevShops: Bridging the gap between Academia and the real world
   Sandra Cleland 45-54

Teaching and Assessing Database Concepts using GIS
   Richard Dargie, Aaron Steele 55-60

   Emre Erturk 61-66

Examining the Role of Mathematics in the IT Curriculum
   Joy Gasson 67-72

Factors Influencing the Adoption of Moodle at Te Wānanga o Aotearoa
   Tane Randell Kaka 73-79

When Innovation Fails: Methods for Collection of Student Feedback
   Darrell Love, Karen Love, Patricia Haden, Joy Glasson 80-84

The role of activism in ICT for Sustainability
   Samuel Mann, Shane Gallagher, Nell Smith 85-93

The Game’s the Thing: Levelling up from Novice Status
   Diane P. McCarthy, Rob Oliver 94-97

Exploring the Application of Agile Principles to Tertiary Computing Education
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staying LinkedIn with ICT Graduates and Industry</td>
<td>Aaron Steele, Sandra Cleland</td>
<td>106-109</td>
</tr>
<tr>
<td>The Cloud Assessment Learning Environment</td>
<td>Aaron Steele, Tony Rickards</td>
<td>110-116</td>
</tr>
<tr>
<td>Student Mentors in ICT Education</td>
<td>Aaron Steele, Sarah Snell, Catherine Snell-Siddle</td>
<td>117-121</td>
</tr>
</tbody>
</table>

**Supplementary papers (editorial review)**

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Programming and Educational Performance Indicators – a Mismatch</td>
<td>Alison Clear, Tony Clear</td>
<td>123-128</td>
</tr>
<tr>
<td>Using Mobile Apps to Enhance Student Engagement in Large Lectures</td>
<td>Trevor Nesbit, Bill O’Steen, Tim Bell</td>
<td>129-132</td>
</tr>
</tbody>
</table>

**Poster papers**

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Private Cloud Infrastructure</td>
<td>Sarath Abhilash, Alison Clear</td>
<td>134-135</td>
</tr>
<tr>
<td>City-Wide Energy Meter</td>
<td>Robert Attfield, Paul Admiraal, Samuel Mann</td>
<td>136-137</td>
</tr>
<tr>
<td>Project Kaka: Mobile OCR and GPS</td>
<td>Daniel Bathurst, Trevor Nesbit</td>
<td>138-139</td>
</tr>
<tr>
<td>Cloud computing adoption concerns within organizations</td>
<td>Sunil K. Bedi</td>
<td>140-141</td>
</tr>
<tr>
<td>Generation Z, no more holding down the (E) button to complete a task:</td>
<td>Neil Benson, Sam Zhao, Todd Cochrane</td>
<td>142-143</td>
</tr>
<tr>
<td>E-learning Environments: Are our students e-ready?</td>
<td>Tina Blumenthal, Michael Verhaart</td>
<td>144-145</td>
</tr>
<tr>
<td>Student Support</td>
<td>Hannah Carey, Karyn Costello, Stephen Sugrue, Paul Admiraal, Samuel Mann, Lesley Smith</td>
<td>146-147</td>
</tr>
<tr>
<td>Blended Learning: Is it Time to Share?</td>
<td>Neale Catchpole</td>
<td>148-149</td>
</tr>
</tbody>
</table>
Peer Reviewed Screencasting as an Assessment
   Mark Caukill, Clare Atkins  150-151

Achieving the optimum business strategy
   – project management alignment in ICT projects in New Zealand.
   Suraj Chande, Michael Verhaart  152-153

Carradale Manor Web Development Project
   Michael Dewar, Trevor Nesbit  154-155

Sexuality Road
   Adam Herd, Paul Admiraal, Sam Mann  156-157

V4You Application for Dementia Patients
   Sruthi Jacob, Sajeeva Merin Sunny, Alison Clear  158-159

Impact of Mobile Technology in CRM-Underlying issues
   Mohankumar Kandavel, Michael Verhaart  160-161

V4U Website for Dementia Patients
   Kamaljeet Kaur, Tejender Pal Singh, Alison Clear  162-163

The Detection of Distinct Gestures by a Pebble Smartwatch
   Loki Kristianson, Alison Clear  164-165

Assessment Rubrics in NZ Tertiary Education
   Graeme Legg, Premalatha Sampath  166-167

A Distributed Framework for Community Analysis in Social Networks
   Jiamou Liu, Ziheng Wei  168-169

Farm Scape
   Sean Matheson, Whetu Taita, Joshua Hawkhead, Paul Admiraal, Samuel Mann  170-171

Cameras on Boats
   John Maxwell, Paul Admiraal, Samuel Mann  172-173

Computer Gaming and the Positive Effects on Mental Health
   Bernard McBrearty, Chris McCarthy  174-175

Redevelopment of a Health and Safety Intranet Toolkit: A Student Internship
   Nicholas Murphy, Trevor Nesbit  176-177

Swarmtech
   Daniel Murphy, Adam Bazley, Braydon Waayer, Andrew Gardner, Wesley Chase,
   Paul Admiraal, Samuel Mann, Tom Clark, Patricia Haden  178-179

Compliance and Data Sovereignty Issues on Cloud Technology
   Vignesh Palanisamy, Michael Verhaart  180-181
Development of an Optimal Wireless Network Solution to Connect End-User Devices in a Bush Environment
   Jagdees Pillai, Steve Cosgrove, Dr. Diane Strode 182-183

SpreadHelp
   Phillip Rooney, Hayden Smith, Dom S’Auvergne, Paul Admiraal, Samuel Mann 184-185

City IT Portfolio Management
   Micheal Rosenbrock, Paul Admiraal, Samuel Mann 186-187

Challenges in Teaching Test-Driven Development
   Premalatha Sampath 188-189

Windows 7 Upgrade Project – Student Internship
   Jody Sanders, Trevor Nesbit 190-191

The Computer Freehold Register; a user’s point of view
   Susan Scott 192-193

Publication Pathways: A Prototyping Project
   Gary Smith, Trevor Nesbit 194-195

Challenges of Video-Mediated Interpreting
   Iwan Tjhin 196-197

Woodgate Software: High End Architecture and Prototype
   Ross Woodgate, Alison Clear 198-199

Database Replacement Project for Non Profit Art Organisation
   Susan Zhu, Trevor Nesbit 200-201
Contents

Full papers (quality assured)

Adoption of Computer Science in NZ schools
   Tim Bell, Heidi Newton, Caitlin Duncan, Sam Jarman
   203-209

Electrical Circuit Creation on Android
   Deqin David Xu, Michelle Hy, Simar Kalra, David Yan, Nasser Giacaman,
   Oliver Sinnen
   210-215

Poster papers

A Distributed Framework for Community Analysis in Social Networks
   Jiamou Liu, Ziheng Wei
   217-218