Contents

Security, Privacy

Ensuring Cloud Security: Current Concerns and Research Challenges ............................. 3
  Nikos Vesyropoulos, Christos K. Georgiadis, and Elias Pimenidis

A Hybrid Network Anomaly and Intrusion Detection Approach Based
on Evolving Spiking Neural Network Classification ............................................. 11
  Konstantinos Demertzis and Lazaros Iliadis

Security Risk Assessment Challenges in Port Information
Technology Systems .................................................................................................. 24
  Georgios Makrodimitris, Nineta Polemi, and Christos Douligeris

e-Governance I

Synthesizing a Criterion for SOA Reference Architecture
to Sustain eParticipation .......................................................................................... 39
  Muntazir Mehdi, Arkadiusz Stasiewicz, Łukasz Porwol,
  Deirdre Lee, and Adegboyega Ojo

E-ekklesia: The Challenge of Direct Democracy and the Ancient
Athenian Model ............................................................................................................ 52
  Ioannis Mpoitsis and Nikos Koutsoupias

Generic Services for Cross Domain Use in e-Government ...................................... 64
  Antonios Stasis, Victoria Kalogirou, and Stergios Tsiafoulis

Building a Logic for a Public Administration Service
Transformation Algorithm .......................................................................................... 73
  Ioannis Savvas, Nick Bassiliades, Elias Pimenidis,
  and Alexander B. Sideridis

e-Government Applications, Virtualization

Electronic Government Enactment in a Small Developing
Country – the Palestinian Authority’s Policy and Practice ...................................... 83
  Fouad J.F. Shat, Amin Mousavi, and Elias Pimenidis

Supporting Lab Courses Using OpenStack .................................................................. 93
  Charalampos Z. Patrikakis, Stefanos A. Kalantzis, Lazaros Toumanidis,
  and Fotis Zisimos
# Contents

## Local Government Processes of Small Settlements in the Czech Republic

*Vojtěch Merunka and Iveta Merunková*

Page 103

## Electronic Voting Systems – From Theory to Implementation

*Nikos Chondros, Alex Delis, Dina Gavatha, Aggelos Kiayias, Charalampos Koutalakis, Ilias Nicolacopoulos, Lampros Paschos, Memi Roussopoulou, Giorgie Sotirelis, Panos Stathopoulos, Pavlos Vasilopoulos, Thomas Zacharias, Bingsheng Zhang, and Fotis Zygoulis*

Page 113

## Mobile Learning: An Android App Using Certified Content

*Sotiris Karetsos, Maria Ntaliani, and Constantina Costopoulou*

Page 123

## Politics - Legislation - European Initiatives

### Negotiating the EU Data Protection Reform: Reflections on the Household Exemption

*Napoleon Xanthoulis*

Page 135

### Legal and Social Aspects of Cyber Crime in Greece

*Anastasios Papathanasiou, Alexandros Papanikolaou, Vasileios Vlachos, Konstantinos Chaikalis, Maria Dimou, Magdalini Karadimou, and Vaia Katsoula*

Page 153

### Mixed Reality Through the Internet of Things and Bitcoin: How Laws Affect Them

*Anastasia Michailaki*

Page 165

### Open Access to Archeological Data and the Greek Law

*Maria Sitara and Eleni Vouligea*

Page 170

## e-Governance II

### Evolution Towards Mobile Government: The Greek and the Czech Cases

*Constantina Costopoulou and Martin Molhanec*

Page 183

### The Strategy and the Progress Made on E-Government Services in the EU

*L. Protopappas and Alexander B. Sideridis*

Page 192

### PERIKLIS - Electronic Democracy in the 21st Century

*Emmanuel Sardis, Panagiotis Kokkinos, and Magdalini Kardara*

Page 202

### Zeus: Bringing Internet Voting to Greece

*Panos Louridas, Georgios Tsoukalas, Kostas Papadimitriou, and Panayiotis Tsanakas*

Page 213

## Author Index

Page 225