From computers to ubiquitous computing, by 2020

PAPERS OF A DISCUSSION MEETING ISSUE ORGANIZED AND EDITED BY
MARTA KWIAKTOWSKA, TOM RODDEN AND VLADIMIRO SASSONE

CONTENTS

M. KWIAKTOWSKA
Introduction 3665

G. BORRIELLO
Invisible computing: automatically using the many bits of data we create 3669

A. HOPPER AND A. RICE
Computing for the future of the planet 3685

P. HARI, K. KO, E. KOUKOUMIDIS, U. KREMER, M. MARTONOSI, D. OTTONI,
L.-S. PEH AND P. ZHANG
SARANA: language, compiler and run-time system support for spatially
aware and resource-aware mobile computing 3699

T. ROSCOE
Network architecture test-beds as platforms for ubiquitous computing 3709

J. M. WING
Computational thinking and thinking about computing 3717

T. A. HENZINGER
Two challenges in embedded systems design: predictability and robustness 3727

R. DE NICOLA AND M. LORETI
Modelling global computations with KLAIM 3737

O. BABAOGLU AND M. JELASIĆ
Self-* properties through gossiping 3747

R. L. RIVEST
On the notion of ‘software independence’ in voting systems 3759

A. JOSHI, T. FININ, L. KAGAL, J. PARKER AND A. PATWARDHAN
Security policies and trust in ubiquitous computing 3769

K. KRUKOW, M. NIELSEN AND V. SASSONE
Trust models in ubiquitous computing 3781

3663 © 2008 The Royal Society