

Table of Contents

Facilitating Context-Awareness in Composite Mashup Applications <i>Stefan Pietschmann, Carsten Radeck, and Klaus Meissner</i>	1
Input-adaptive QMC-Kalman filters for track fitting <i>Rodolfo G. Esteves, Christiane Lemieux, and Michael McCool</i>	9
An Adaptable Process Planning Tool - A Tool for Information, Communication, and Interaction in a Robot Cell <i>Fredrik Danielsson and Linn Gustavsson Christiernin</i>	15
Fungi as Metaphors for Resource Management <i>Eilidh McAdam, Ruth Falconer, James Bown, and John Crawford</i>	20
Adapting to the Unknown With a few Simple Rules: The glideinWMS Experience <i>Igor Sfiligoi, Benjamin Hass, Frank Wurthwein, and Burt Holzman</i>	25
A Case Study on Self-Sufficiency of Individual Robotic Modules in an Arena With Limited Energy Resources <i>Humza Qadir Raja and Oliver Scholz</i>	29
Dependable and Usage-Aware Service Binding <i>Holger Klus, Dirk Niebuhr, and Andreas Rausch</i>	36
The Role of Corticothalamic Feedback in the Response Mode Transition of Thalamus <i>Jia-xin Cui and Chun-feng Shang</i>	46
Adaptive Mobile Web Applications Through Fine-Grained Progressive Enhancement <i>Heiko Desruelle, Dieter Blomme, and Frank Gielen</i>	51
LTE Uplink Power Control and its Impact on Service Performance <i>Elena-Roxana Cirstea and Silviu Ciochina</i>	57
Temporal Mechanisms for Communications in Real-Time Networks <i>Pascal Lorenz</i>	62
A Formal Orchestration Model for Dynamically Adaptable Services with COWS <i>Jorge Fox</i>	67
Real-Time Transfer and Evaluation of Activity Recognition Capabilities in an Opportunistic System <i>Marc Kurz, Gerold Holzl, Alois Ferscha, Alberto Calatroni, Daniel Roggen, and Gerhard Troster</i>	73
Self-Adaptive Agents for Debugging Multi-Agent Simulations	79

Mathematical model for the optimal utilization percentile in M/M/1 systems: a contribution about knees in performance curves

85

Francisco Alejandro Gonzalez-Horta, Rogerio Adrian Enriquez-Caldera, Juan Manuel Ramirez-Cortes, Jorge Martinez-Carballido, and Eldamira Buenfil-Alpuche