

Table of Contents

Snow on Silk: A NodeOS in the Linux Kernel	1
<i>Nadia Shalaby, Yitzchak Gottlieb, Mike Wawrzoniak, Larry Peterson (Princeton University)</i>	
PromethOS: A Dynamically Extensible Router Architecture Supporting Explicit Routing	20
<i>Ralph Keller, Lukas Ruf, Amir Guindehi, Bernhard Plattner (Swiss Federal Institute of Technology (ETH) Zürich)</i>	
The OKE Corral: Code Organisation and Reconfiguration at Runtime Using Active Linking	32
<i>Herbert Bos, Bart Samwel (Leiden Institute of Advanced Computer Science)</i>	
Lightweight Thread Tunnelling in Network Applications	48
<i>Austin Donnelly (University of Cambridge)</i>	
RADAR: Ring-Based Adaptive Discovery of Active Neighbour Routers . . .	62
<i>Sylvain Martin, Guy Leduc (Université de Liège)</i>	
Integrated Service Deployment for Active Networks	74
<i>Matthias Bossardt (Swiss Federal Institute of Technology (ETH) Zürich), Takashi Egawa (NEC Networking Laboratories), Hideki Otsuki (Communications Research Laboratory), Bernhard Plattner (Swiss Federal Institute of Technology (ETH) Zürich)</i>	
Component-Based Deployment and Management of Services in Active Networks	87
<i>Marcin Solarski (Fraunhofer Institute for Open Communication Systems FOKUS), Matthias Bossardt (Swiss Federal Institute of Technology (ETH) Zürich), Thomas Becker (Fraunhofer Institute for Open Communication Systems FOKUS)</i>	
ANQL – An Active Networks Query Language	99
<i>Craig Milo Rogers (Information Systems Institute)</i>	
Predictable, Lightweight Management Agents	111
<i>Jonathan T. Moore, Jessica Kornblum Moore (University of Pennsylvania), Scott Nettles (The University of Texas at Austin)</i>	
Open Packet Monitoring on FLAME: Safety, Performance, and Applications	120
<i>Kostas G. Anagnostakis, Michael Greenwald, Sotiris Ioannidis, Stefan Miltchev (University of Pennsylvania)</i>	

Active Networks for 4G Mobile Communication: Motivation, Architecture, and Application Scenarios	132
<i>Christian Prehofer, Qing Wei (DoCoMo Communications Laboratoires Europe)</i>	
Evolution in Action: Using Active Networking to Evolve Network Support for Mobility	146
<i>Seong-Kyu Song, Stephen Shannon (The University of Texas at Austin), Michael Hicks (University of Maryland, College Park), Scott Nettles (The University of Texas at Austin)</i>	
AMnet 2.0: An Improved Architecture for Programmable Networks	162
<i>Thomas Fuhrmann, Till Harbaum, Marcus Schöller, Martina Zitterbart (University of Karlsruhe)</i>	
Design and Implementation of a Python-Based Active Network Platform for Network Management and Control	177
<i>Florian Baumgartner (Purdue University), Torsten Braun (University of Bern), Bharat Bhargava (Purdue University)</i>	
Designing Service-Specific Execution Environments	191
<i>Mary Bond, James Griffioen, Chetan Singh Dhillon, Kenneth L. Calvert (University of Kentucky)</i>	
ROSA: Realistic Open Security Architecture for Active Networks	204
<i>Marcelo Bagnulo (Universidad Carlos III de Madrid), Bernardo Alarcos (Universidad de Alcalá), María Calderón (Universidad Carlos III de Madrid), Marifeli Sedano (Universidad de Alcalá)</i>	
A Flexible Concast-Based Grouping Service	216
<i>Amit Sehgal, Kenneth L. Calvert, James Griffioen (University of Kentucky)</i>	
Programmable Resource Discovery Using Peer-to-Peer Networks	229
<i>Paul Smith, Steven Simpson, David Hutchison (Lancaster University)</i>	
Feature Interaction Detection in Active Networks	241
<i>Go Ogose, Jyunya Yoshida, Tae Yoneda, Tadashi Ohta (Soka University)</i>	
Flexible, Dynamic, and Scalable Service Composition for Active Routers . .	253
<i>Stefan Schmid, Tim Chart, Manolis Sifalakis, Andrew C. Scott (Lancaster University)</i>	
Author Index	267

Active Networks

IFIP-TC6 4th International Working Conference, IWAN

2002, Zurich, Switzerland, December 4-6, 2002,

Proceedings

Sterbenz, J.P.G.; Takada, O.; Tschudin, C.; Plattner, B.

(Eds.)

2002, XIV, 267 p., Softcover

ISBN: 978-3-540-00223-9