2006 Index The International Arab Journal of Information Technology Vol.3

This index covers all papers that appeared in IAJIT during 2006. The author's index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthor's names, the title of the paper, journal abbreviation, month, year, and inclusive pages. The subject's index contains entries describing the item under all appropriate subject headings based on the keywords specified by the authors. Each entry includes the title of the paper, the author's names, journal abbreviation, month, year, and inclusive pages.

Author Index

Abdali Rashed A., see Ajlouni N., IAJIT January 2006 35-41 **Abdel Fattah M.**, Ren F., and Kuroiwa S., speaker recognition for wire/wireless communication systems, IAJIT January 2006 28-34 **Abid A.**, see Taibi T., IAJIT January 2006 20-27

Abu Bakar Z., see Wee M. C., *IAJIT July 2006 203-209*. **Ajlouni N.**, El-Sheikh A., and Abdali Rashed A., a new approach in key generation and expansion in rijndael algorithm, *IAJIT January 2006 35-41*

Aklouf Y. and Drias H., designing a generic marketplace architecture using multi-agent based technology, *IAJIT July 2006* 249-255.

Alani H., see Yousif H., IAJIT July 2006 237-241.

Al-Daoud E., incremental learning of auto-association multilayer perceptrons network, *IAJIT January 2006 16-19*

Al-Khanjari Z., partial automation of sensitivity analysis by mutant schemata approach, *IAJIT January* 2006 82-93.

Al-Khanjari Z., Kutti S., and Hatem M., an extended e-learning system architecture: integrating software tools within the e-learning portal, *IAJIT January* 2006 75-81.

Alomary A. and Jamil M., an approach to strengthen expert system shell with knowledge illustration established on peak of the fuzzy logic, *IAJIT July 2006 210-218*.

Alomary A. and Jamil M., the evaluation and comparative study with a new clustered based machine learning algorithm, *IAJIT October* 2006 273-282.

Al-Shalabi H., *see* Hassan M., *IAJIT October 2006 299-302*. **Al-Talib S.**, Mohd Ali B., and Khatun S., integrating multicasting and hash algorithm to support host mobility, *IAJIT January 2006 55-61*.

Al Zahrani S., see Kofahi N., IAJIT January 2006 62-68. Amamiya M., see El-Basuny T., IAJIT October 2006 291-298. Anbarasan U., see Ponnurangam D., IAJIT April 2006 111-117. Arumugam S. and Govindaswamy S., performance of the modified round robin scheduling algorithm for input-queued switches under self-similar traffic, IAJIT April 2006 165-171. Arumugam S., Govindaswamy S., and Boya P. K., a novel transistor level implementation of a high speed packet switch, IAJIT July 2006 226-230.

Awad M., see Mansour N., IAJIT January 2006 42-47. Awadelkarim A. and Idris N., an XML-based security management model for multilevel security databases, IAJIT April 2006 95-103.

Badache N., see Djenouri D., IAJIT April 2006 126-133.
Batouche M., see Talbi H., IAJIT January 2006 9-15.
Bouhadada T. and Laskri M. T., a virtual cooperative learning environment using human companion, IAJIT January 2006 48-54.
Boulmakoul A., see Mouncif H., IAJIT July 2006 256-264.
Boya P. K., see Arumugam S., IAJIT July 2006 226-230.

Chala M., see Mouncif H., IAJIT July 2006 256264.

Chehab W., see Haraty R. A., IAJIT October 2006 308-314.

Chiam Y. F., see Taibi T., IAJIT January 2006 20-27.

Dalal'ah A., a dynamic sliding load balancing strategy in distributed systems, *IAJIT April 2006 178-182*.

Derhab A., see Djenouri D., IAJIT April 2006 126-133.

Djenouri D., Derhab A., and Badache N., ad hoc networks routing protocols and mobility, *IAJIT April 2006 126-133*.

Doucet A., see Nouali N., IAJIT April 2006 134-143.

Doucet A., see Nouali N., IAJIT January 2006 1-8.

Draa A., see Talbi H., IAJIT January 2006 9-15

Drias H., see Aklouf Y., IAJIT July 2006 249255 .

Drias H., see Nouali N., IAJIT April 2006 134-143.

Drias H., see Nouali N., IAJIT January 2006 1-8.

El Saddik A., see Laurens V., IAJIT October 2006 326-333.

El-Basuny T. and Amamiya M., multi-agent-based adaptive AV interface, *IAJIT October 2006 291-298*.

El-Borahy M., see El-Telbany M., IAJIT October 2006 303-307. **Eldin N.**, see Eldrandaly K., IAJIT October 2006 337-341.

Eldrandaly K. and Eldin N., a knowledge-based decision support system for scraper selection and cost estimation, *IAJIT October* 2006 337-341.

El-Fakih K., see Mansour N., IAJIT January 2006 42-47. El-Sheikh A., see Ajlouni N., IAJIT January 2006 35-41 El-Telbany M., Warda M., and El-Borahy M., mining the classification rules for Egyptian rice diseases, IAJIT October 2006 303-307.

Govindaswamy S., see Arumugam S., IAJIT April 2006 165-171. Govindaswamy S., see Arumugam S., IAJIT July 2006 226-230. Gutub A. A., fast 160-bits GF (P) elliptic curve crypto hardware of high-radix scalable multipliers, IAJIT October 2006 342-349.

Hamrouni K. and Khlifa N., two methods for analysis of dynamic scintigraphic images of the heart, *IAJIT April 2006 118-125*.

Haraty R. A. and Chehab W., regression test selection for trusted database applications, *IAJIT October 2006 308-314*.

Harmanani H., Keirouz W., and Raheel S., a rule-based extensible stemmer for information retrieval with application to Arabic, *IAJIT July 2006 265-272*.

Hassan M. and Al-Shalabi H., modified cryptanalysis of RC5, *IAJIT October 2006 299-302*.

Hasnah A., see Jaam J., IAJIT July 2006 242-248.

Hatem M., see Al-Khanjari Z., IAJIT January 2006 75-81.

Hussain S. M., see Kofahi N., IAJIT January 2006 62-68.

Idris N., see Awadelkarim A., IAJIT April 2006 95-103.

Jaam J., Rebaiaia M., and Hasnah A., a fingerprint minutiae recognition system based on genetic algorithms, *IAJIT July 2006 242-248*.

Jamil M., see Alomary A., IAJIT July 2006 210-218.

Jamil M., see Alomary A., IAJIT October 2006 273-282.

Jantan A. B., see Natsheh E., IAJIT October 2006 283-290.

Kannan A., see Prabha S., IAJIT July 2006 342 30

Keirouz W., see Harmanani H., IAJIT July 2006 265 272.

Khatun S., see Al-Talib S., IAJIT January 2006 55-61.

Khatun S., see Natsheh E., IAJIT October 2006 283-290.

Khlifa N., see Hamrouni K., IAJIT April 2006 118-125.

King B., see Shaout A., IAJIT October 2006 315-325.

Kofahi N., Al Zahrani S., and Hussain S. M., MOSIX evaluation on a Linux cluster, *IAJIT January* 2006 62-68.

Krishnasamy K., Lee S. P., and Palaniappan A. K., alternative learning approaches for electronic learning environments in smart schools: survey results, *IAJIT April 2006 144-151*.

Kumar P. A., see Prabha S., IAJIT July 2006 231-238.

Kuroiwa S., see Abdel Fattah M., *IAJIT January* 2006 28-34. Kutti S., see Al-Khanjari Z., *IAJIT January* 2006 75-81.

Laskri M. T., *see* Bouhadada T., *IAJIT January 2006 48-54*. **Laurens V.**, El Saddik A., and Nayak A., requirements for client puzzles to defeat the denial of service and the distributed denial of service attacks, *IAJIT October 2006 326-333*.

Lee S. P., see Krishnasamy K., IAJIT April 2006 144-151. Lim W. J., see Taibi T., IAJIT January 2006 20-27

Mansour N., Awad M., and El-Fakih K., incremental genetic algorithm, *IAJIT January* 2006 42-47.

Marzuki K., see Zuwairie I., IAJIT April 2006 172-177.

Mohd Ali B., see Al-Talib S., IAJIT January 2006 55-61. **Mouncif H.**, Boulmakoul A., and Chala M., integrating GIStechnology for modeling origin-destination trip in multimodal transportation networks, IAJIT July 2006 256264.

Moutaz S. and Shamala S., hierarchical AED scheduling algorithm for real-time networks, *IAJIT July 2006 219-225*.

Natsheh E., Khatun S., and Jantan A. B., adaptive fuzzy route lifetime for wireless ad-hoc networks, *IAJIT October 2006 283-290*

Nayak A., see Laurens V., IAJIT October 2006 326-333.

Nouali N., Drias H., and Doucet A., a mobility-aware two-phase commit protocol, *IAJIT January 2006 1-8*.

Nouali N., Drias H., and Doucet A., protocols for committing mobile transactions, *IAJIT April 2006 134-143*.

Osamu O., see Zuwairie I., IAJIT April 2006 172-177.

Padhye S., on DRSA public key cryptosystem, *IAJIT October* 2006 334-336.

Palaniappan A. K., see Krishnasamy K., IAJIT April 2006 144-151.

Ponnurangam D. and Anbarasan U., evolution of agent-oriented distributed model for software testing: a layered approach, *IAJIT April 2006* 111-117.

Prabha S., Kannan A., and Kumar P. A., an optimizing query processor with an efficient caching mechanism for distributed databases, *IAJIT July 2006* 231-236.

Quaddoura R., operator decomposition of graphs, *IAJIT April* 2006 152-164.

Quaddoura R., linear time recognition of bipartite star₁₂₃-free graphs, *IAJIT July 2006 193202*.

Raheel S., see Harmanani H., IAJIT July 2006 265-272.

Rahma A. M., see Yousif H., IAJIT July 2006 237241.

Rebaiaia M., see Jaam J., IAJIT July 2006 242-248.

Reisner L., see Shaout A., IAJIT October 2006 315-325.

Ren F., see Abdel Fattah M., IAJIT January 2006 28-34.

Salman N., image segmentation and edge detection based on chanvese algorithm, *IAJIT January* 2006 69-74.

Salman N., image segmentation based on watershed and edge detection techniques, *IAJIT April 2006* 104-110.

Sari T., see Seridi H., IAJIT July 2006 183-192.

Sellami M., see Seridi H., IAJIT July 2006 183-192.

Seridi H., Sari T., and Sellami M., adaptive instructional planning using neural networks in intelligent learning systems, *IAJIT July* 2006 183-192.

Shamala S., see Moutaz S., IAJIT July 2006 219 225.

Shaout A., King B., and Reisner L., real-time game design of Pac-Man using fuzzy logic, *IAJIT October 2006 315-325*.

Taibi T., Abid A., Lim W. J., Chiam Y. F., and Ting Ng C., design and implementation of a two-phase commit protocol simulator, *IAJIT January* 2006 20-27

Talbi H., Draa A., and Batouche M., a novel quantum-inspired evolutionary algorithm for multi-sensor image registration, *IAJIT January* 2006 9-15

Ting Ng C., see Taibi T., IAJIT January 2006 20-27

Warda M., see El-Telbany M., IAJIT October 2006 303-307.

Wee M. C. and Abu Bakar Z., obstacles towards the use of ICT tools in teaching and learning of information systems in Malaysian universities, *IAJIT July 2006 203-209*.

Yousif H., Rahma A. M., and Alani H., cuneiform symbols recognition using intensity curves, *IAJIT July 2006 237241*. **Yusei T.**, *see* Zuwairie I., *IAJIT April 2006 172-177*.

Zuwairie I., YuseiT., Osamu O., and Marzuki K., unconstraint assignment problem: a molecular computing approach, *IAJIT April* 2006 172-177.

Subject Index

2PC

design and implementation of a two-phase commit protocol simulator, Taibi T., +, *IAJIT January 2006 2027*.

Access control

an XML-based security management model for multilevel security databases, Awadelkarim A., +, *IAJIT April 2006 95 103*.

Active counters

image segmentation and edge detection based on Chan-Vese algorithm, Salman N., *IAJIT January 2006 6974*.

Ad-hoc mobile networks

ad hoc networks routing protocols and mobility, Djenouri D., +, *IAJIT April 2006 126-133*.

Ad-hoc networks

adaptive fuzzy route lifetime for wireless ad-hoc networks, Natsheh E., +, *IAJIT October 2006 283-290*.

Adaptation

multi-agent-based adaptive AV interface, El-Basuny T., +, *IAJIT October 2006 291-298*.

Adaptive and automatic course sequencing

adaptive instructional planning using neural networks in intelligent learning systems, Seridi H., +, *IAJIT July 2006 183-192*.

Adaptive route timeout

adaptive fuzzy route lifetime for wireless ad-hoc networks, Natsheh E., +, *IAJIT October 2006 283-290*.

AED

hierarchical AED scheduling algorithm for real-time networks, Moutaz S., +, *IAJIT July 2006 219225* .

AES

a new approach in key generation and expansion in Rijndael algorithm, Ajlouni N., +, *IAJIT January 2006 35-41*.

Agent-oriented-programming

multi-agent-based adaptive AV interface, El-Basuny T., +, *IAJIT October 2006 291-298*.

AODV

adaptive fuzzy route lifetime for wireless ad-hoc networks, Natsheh E., +, *IAJIT October 2006 283-290*.

AOST

evolution of agent-oriented distributed model for software testing: a layered approach, Ponnurangam D., +, *IAJIT April 2006 111-117*.

Application server

an extended e-learning system architecture: integrating software tools within the e-learning portal, Al-Khanjari Z., +, *IAJIT January 2006 75-81*.

Artificial intelligence

real-time game design of Pac-Man using fuzzy logic, Shaout A., +, *IAJIT October 2006 315-325*.

Assignment problem

unconstraint assignment problem: a molecular computing approach, Zuwairie I., +, *IAJIT April 2006 172-177*.

Auto-association multilayer perceptrons

incremental learning of auto-association multilayer perceptrons network, Al-Daoud E., *IAJIT January* 2006 16 19.

Bipartite graph

linear time recognition of bipartite star₁₂₃-free graphs, Quaddoura R., *IAJIT July 2006 193-202*.

Caching

an optimizing query processor with an efficient caching mechanism for distributed databases, Prabha S., +, *IAJIT July 2006 231-236*.

Chan-Vese approach

image segmentation and edge detection based on Chan-Vese algorithm, Salman N., *IAJIT January 2006 6974*.

Classification

mining the classification rules for Egyptian rice diseases, El-Telbany M., +, *IAJIT October 2006 303-307*.

Clustering algorithm

the evaluation and comparative study with a new clustered based machine learning algorithm, Alomary A., +, *IAJIT October 2006 273-282*.

COM

a knowledge-based decision support system for scraper selection and cost estimation, Eldrandaly K., +, *IAJIT October 2006 337-*341

Companion

a virtual cooperative learning environment using human companion, Bouhadada T., +, *IAJIT January 2006 48-54*.

Complexity

linear time recognition of bipartite star₁₂₃-free graphs, Quaddoura R., *IAJIT July 2006 193-202*.

Covariance

two methods for analysis of dynamic scintigraphic images of the heart, Hamrouni K., +, *IAJIT April 2006 118-125*.

Cryptographic

modified cryptanalysis of RC5, Hassan M., +, *IAJIT October 2006* 299-302.

Cuneiform

cuneiform symbols recognition using intensity curves, Yousif H., +, *IAJIT July 2006 237-241*.

Data manager

design and implementation of a two-phase commit protocol simulator, Taibi T., +, *IAJIT January 2006 20*27.

Data mining

mining the classification rules for Egyptian rice diseases, El-Telbany M., +, *IAJIT October 2006 303-307*.

Database security

an XML-based security management model for multilevel security databases, Awadelkarim A., +, *IAJIT April 2006 95 103*.

Decision support systems

a knowledge-based decision support system for scraper selection and cost estimation, Eldrandaly K., +, *IAJIT October 2006 337-341*.

Decision trees

mining the classification rules for Egyptian rice diseases, El-Telbany M., +, *IAJIT October 2006 303-307*.

Decomposition of graphs

linear time recognition of bipartite star₁₂₃-free graphs, Quaddoura R., *IAJIT July 2006 193-202*.

Difference in strength map

image segmentation based on watershed and edge detection techniques, Salman N., *IAJIT April 2006 104-110*.

Differential cryptanalysis

modified cryptanalysis of RC5, Hassan M., +, *IAJIT October 2006 299-302*.

Disconnection

a mobility-aware two-phase commit protocol, Nouali N., +, *IAJIT January 2006 1-8*.

protocols for committing mobile transactions, Nouali N., +, *IAJIT April 2006 134-143*.

Distant learning

a virtual cooperative learning environment using human companion, Bouhadada T., +, *IAJIT January 2006 48-54*.

Distributed denial of service

requirements for client puzzles to defeat the denial of service and the distributed denial of service attacks, Laurens V., +, *IAJIT October 2006 326-333*.

Distributed systems

a dynamic sliding load balancing strategy in distributed systems, Dalal'ah A., *IAJIT April 2006 178-182*.

Distributed testing framework

evolution of agent-oriented distributed model for software testing: a layered approach, Ponnurangam D., +, *IAJIT April 2006 111-117*.

DNA computing

unconstraint assignment problem: a molecular computing approach, Zuwairie I., +, *IAJIT April 2006 172-177*.

Domain ontology

adaptive instructional planning using neural networks in intelligent learning systems, Seridi H., +, *IAJIT July 2006 183-192*.

DRSA

on DRSA public key cryptosystem, Padhye S., *IAJIT October* 2006 334-336

DTL strategy

a virtual cooperative learning environment using human companion, Bouhadada T., +, *IAJIT January 2006 48-54*.

Edge detection

image segmentation and edge detection based on Chan-Vese algorithm, Salman N., *IAJIT January 2006 6974*.

image segmentation based on watershed and edge detection techniques, Salman N., *IAJIT April 2006 104-110*.

Effective design

alternative learning approaches for electronic learning environments in smart schools: survey results, Krishnasamy K., +, *IAJIT April 2006 144-151*.

E-learning

alternative learning approaches for electronic learning environments in smart schools: survey results, Krishnasamy K., +, *IAJIT April 2006 144-151*.

obstacles towards the use of ICT tools in teaching and learning of information systems in Malaysian universities, Wee M. C., +, *IAJIT July 2006 203-209*.

Electronic business

designing a generic marketplace architecture using multi-agent based technology, Aklouf Y., +, *IAJIT July 2006 249-255*.

Elliptic curve cryptography

fast 160-bits GF (P) elliptic curve crypto hardware of high-radix scalable multipliers, Gutub A. A., *IAJIT October 2006 342-349*.

Evidential reasoning

the evaluation and comparative study with a new clustered based machine learning algorithm, Alomary A., +, *IAJIT October 2006 273-282*.

Evolutionary algorithms

a novel quantum-inspired evolutionary algorithm for multi-sensor image registration, Talbi H., +, *IAJIT January 2006 9-15*.

Exam scheduling

incremental genetic algorithm, Mansour N., +, *IAJIT January 2006* 42-47.

Expert systems

mining the classification rules for Egyptian rice diseases, El-Telbany M., +, *IAJIT October 2006 303-307*.

a knowledge-based decision support system for scraper selection and cost estimation, Eldrandaly K., +, *IAJIT October 2006 337-*

Failure recovery

design and implementation of a two-phase commit protocol simulator, Taibi T., +, *IAJIT January 2006 2027*.

Fingerprint's minutiae detection

a fingerprint minutiae recognition system based on genetic algorithms, Jaam J., +, *IAJIT July 2006 242-248*.

Fuzzy expert system

an approach to strengthen expert system shell with knowledge illustration established on peak of the fuzzy logic, Alomary A., +, *IAJIT July 2006 210-218*.

Fuzzy logic

real-time game design of Pac-Man using fuzzy logic, Shaout A., +, *IAJIT October 2006 315-325*.

Fuzzy operators

an approach to strengthen expert system shell with knowledge illustration established on peak of the fuzzy logic, Alomary A., +, *IAJIT July 2006 210-218*.

Fuzzy route lifetime

adaptive fuzzy route lifetime for wireless ad-hoc networks, Natsheh E., +, *IAJIT October 2006 283-290*.

Game

real-time game design of Pac-Man using fuzzy logic, Shaout A., +, *IAJIT October 2006 315-325*.

General optimization

incremental genetic algorithm, Mansour N., +, *IAJIT January 2006* 42-47.

Genetic algorithms

a fingerprint minutiae recognition system based on genetic algorithms, Jaam J., +, *IAJIT July 2006 242-248*.

GIS

integrating GIS-technology for modelling origin-destination trip in multimodal transportation networks, Mouncif H., +, *IAJIT July 2006 256-264*.

GloMoSim

ad hoc networks routing protocols and mobility, Djenouri D., +, *IAJIT April 2006 126-133*.

Graph decomposition

operator decomposition of graphs, Quaddoura R., *IAJIT April* 2006 152-164.

Handover

integrating multicasting and hash algorithm to support host mobility, Al-Talib S., +, *IAJIT January 2006 5561*.

Hash algorithm

integrating multicasting and hash algorithm to support host mobility, Al-Talib S., +, *IAJIT January 2006 5561*.

Hereditary class

operator decomposition of graphs, Quaddoura R., *IAJIT April* 2006 152-164.

Hierarchical

hierarchical AED scheduling algorithm for real-time networks, Moutaz S., +, *IAJIT July 2006 219225* .

High performance computing

MOSIX evaluation on a Linux cluster, Kofahi N., +, IAJIT January

2006 6268.

High speed packet switches

a novel transistor level implementation of a high speed packet switch, Arumugam S., +, *IAJIT July 2006 226-230*.

performance of the modified round robin scheduling algorithm for input-queued switches under self-similar traffic, Arumugam S., +, *IAJIT April 2006 165-171*.

Higher education

obstacles towards the use of ICT tools in teaching and learning of information systems in Malaysian universities, Wee M. C., +, *IAJIT July 2006 203-209*.

ICT tools

obstacles towards the use of ICT tools in teaching and learning of information systems in Malaysian universities, Wee M. C., +, *IAJIT July 2006 203-209*.

Image

cuneiform symbols recognition using intensity curves, Yousif H., +, *IAJIT July 2006 237-241*.

Image processing

two methods for analysis of dynamic scintigraphic images of the heart, Hamrouni K., +, *IAJIT April 2006 118-125*.

a fingerprint minutiae recognition system based on genetic algorithms, Jaam J., +, *IAJIT July 2006 242-248*.

Image registration

a novel quantum-inspired evolutionary algorithm for multi-sensor image registration, Talbi H., +, *IAJIT January 2006 9-15*.

Image segmentation

image segmentation based on watershed and edge detection techniques, Salman N., *IAJIT April 2006 104-110*.

Incremental genetic algorithms

incremental genetic algorithm, Mansour N., +, *IAJIT January 2006* 42-47.

Incremental learning

the evaluation and comparative study with a new clustered based machine learning algorithm, Alomary A., +, *IAJIT October 2006 273-282*.

Information retrieval

a rule-based extensible stemmer for information retrieval with application to Arabic, Harmanani H., +, *IAJIT July 2006 265-272*.

Information systems

obstacles towards the use of ICT tools in teaching and learning of information systems in Malaysian universities, Wee M. C., +, *IAJIT July 2006 203-209*.

Input-queued switches

performance of the modified round robin scheduling algorithm for input-queued switches under self-similar traffic, Arumugam S., +, *IAJIT April 2006 165-171*.

Integration of databases

an XML-based security management model for multilevel security databases, Awadelkarim A., +, *IAJIT April 2006 95 103*.

Intelligent agents

real-time game design of Pac-Man using fuzzy logic, Shaout A., +, *IAJIT October 2006 315-325*.

Intelligent learning environment

adaptive instructional planning using neural networks in intelligent learning systems, Seridi H., +, *IAJIT July 2006 183-192*.

Intensity

cuneiform symbols recognition using intensity curves, Yousif H., +, IAJIT July 2006 237-241.

Interactive

real-time game design of Pac-Man using fuzzy logic, Shaout A., +, *IAJIT October 2006 315-325*.

Interactive learning environment

a virtual cooperative learning environment using human companion, Bouhadada T., +, *IAJIT January 2006 48-54*.

IQ architecture

a novel transistor level implementation of a high speed packet switch, Arumugam S., +, *IAJIT July 2006 226-230*.

Java

designing a generic marketplace architecture using multi-agent based technology, Aklouf Y., +, *IAJIT July 2006 249-255*.

Key expansion

a new approach in key generation and expansion in Rijndael algorithm, Ajlouni N., +, *IAJIT January 2006 35-41*.

Key generation

a new approach in key generation and expansion in Rijndael algorithm, Ajlouni N., +, *IAJIT January 2006 35-41*.

K-means

image segmentation and edge detection based on Chan-Vese algorithm, Salman N., *IAJIT January 2006 6974*.

image segmentation based on watershed and edge detection techniques, Salman N., *IAJIT April 2006 104-110*.

LCS

a virtual cooperative learning environment using human companion, Bouhadada T., +, IAJIT January 2006 48-54.

Learner model

adaptive instructional planning using neural networks in intelligent learning systems, Seridi H., +, *IAJIT July 2006 183-192*.

Learning

multi-agent-based adaptive AV interface, El-Basuny T., +, *IAJIT October 2006 291-298*.

Legacy databases

an XML-based security management model for multilevel security databases, Awadelkarim A., +, *IAJIT April 2006 95 103*.

Level set methods

image segmentation and edge detection based on Chan-Vese algorithm, Salman N., *IAJIT January 2006 6974*.

Linux cluster

MOSIX evaluation on a Linux cluster, Kofahi N., +, *IAJIT January*

2006 6**2**68.

Load balancing

a dynamic sliding load balancing strategy in distributed systems, Dalal'ah A., *IAJIT April 2006 178-182*.

Locking manager

design and implementation of a two-phase commit protocol simulator, Taibi T., +, *IAJIT January 2006 20*27.

Marketplace architecture

designing a generic marketplace architecture using multi-agent based technology, Aklouf Y., +, *IAJIT July 2006 249-255*.

Message passing

a dynamic sliding load balancing strategy in distributed systems, Dalal'ah A., *IAJIT April 2006 178-182*.

Mobile 2PC protocol

a mobility-aware two-phase commit protocol, Nouali N., +, *IAJIT January 2006 1-8*.

Mobile agents

designing a generic marketplace architecture using multi-agent based technology, Aklouf Y., +, *IAJIT July 2006 249-255*.

Mobile computing

a mobility-aware two-phase commit protocol, Nouali N., +, *IAJIT January 2006 1-8*.

Mobile IPv6

integrating multicasting and hash algorithm to support host mobility, Al-Talib S., +, *IAJIT January 2006 5561*.

Mobile transaction commitment

protocols for committing mobile transactions, Nouali N., +, *IAJIT April 2006 134-143*.

Mobile transactions

a mobility-aware two-phase commit protocol, Nouali N., +, *IAJIT January 2006 1-8*.

Mobility

a mobility-aware two-phase commit protocol, Nouali N., +, *IAJIT January 2006 1-8*.

protocols for committing mobile transactions, Nouali N., +, *IAJIT April 2006 134-143*.

Modulo multipliers

fast 160-bits GF (P) elliptic curve crypto hardware of high-radix scalable multipliers, Gutub A. A., *IAJIT October 2006 342-349*.

MOSIX

MOSIX evaluation on a Linux cluster, Kofahi N., +, *IAJIT January*

2006 6268.

Mothra mutation system

partial automation of sensitivity analysis by mutant schemata approach, Al-Khanjari Z., *IAJIT January 2006 82-93*.

MPÍ

MOSIX evaluation on a Linux cluster, Kofahi N., +, *IAJIT January*

2006 6268

MSG-infection tool

partial automation of sensitivity analysis by mutant schemata approach, Al-Khanjari Z., *IAJIT January 2006 82-93*.

Multi-agents

evolution of agent-oriented distributed model for software testing: a layered approach, Ponnurangam D., +, *IAJIT April 2006 111-117*.

Multi-agents systems

designing a generic marketplace architecture using multi-agent based technology, Aklouf Y., +, *IAJIT July 2006 249-255*.

Multicast group

integrating multicasting and hash algorithm to support host mobility, Al-Talib S., +, *IAJIT January 2006 5561*.

Multimodal graph

integrating GIS-technology for modelling origin-destination trip in multimodal transportation networks, Mouncif H., +, *IAJIT July* 2006 256-264.

Multimodal transportation networks

integrating GIS-technology for modelling origin-destination trip in multimodal transportation networks, Mouncif H., +, *IAJIT July 2006 256-264*.

Multiple inheritances

the evaluation and comparative study with a new clustered based machine learning algorithm, Alomary A., +, *IAJIT October 2006 273-282*.

Multiple intelligences

alternative learning approaches for electronic learning environments in smart schools: survey results, Krishnasamy K., +, *IAJIT April 2006 144-151*.

Mutant schemata approach

partial automation of sensitivity analysis by mutant schemata approach, Al-Khanjari Z., *IAJIT January 2006 82-93*.

Mutation testing

partial automation of sensitivity analysis by mutant schemata approach, Al-Khanjari Z., *IAJIT January 2006 82-93*.

Mutual information

a novel quantum-inspired evolutionary algorithm for multi-sensor image registration, Talbi H., +, *IAJIT January 2006 9-15*.

MyCoursesServer

an extended e-learning system architecture: integrating software tools within the e-learning portal, Al-Khanjari Z., +, *IAJIT January 2006 75-81*.

Natural language processing

a rule-based extensible stemmer for information retrieval with application to Arabic, Harmanani H., +, *IAJIT July 2006 265-272*.

Neural networks

incremental learning of auto-association multilayer perceptrons network, Al-Daoud E., *IAJIT January 2006 16 19*.

adaptive instructional planning using neural networks in intelligent learning systems, Seridi H., +, *IAJIT July 2006 183-192*.

mining the classification rules for Egyptian rice diseases, El-Telbany M., +, *IAJIT October 2006 303-307*.

NL interface

multi-agent-based adaptive AV interface, El-Basuny T., +, *IAJIT October 2006 291-298*.

Obstacles

obstacles towards the use of ICT tools in teaching and learning of information systems in Malaysian universities, Wee M. C., +, *IAJIT July 2006 203-209*.

Online teaching and learning

alternative learning approaches for electronic learning environments in smart schools: survey results, Krishnasamy K., +, *IAJIT April 2006 144-151*.

Optimization

unconstraint assignment problem: a molecular computing approach, Zuwairie I., +, *IAJIT April 2006 172-177*.

Optimization algorithms

incremental genetic algorithm, Mansour N., +, *IAJIT January 2006* 42-47.

Overlapping concept

the evaluation and comparative study with a new clustered based machine learning algorithm, Alomary A., +, *IAJIT October 2006 273-282*.

Packet schedulers

performance of the modified round robin scheduling algorithm for input-queued switches under self-similar traffic, Arumugam S., +, *IAJIT April 2006 165-171*.

Packet switch schedulers

a novel transistor level implementation of a high speed packet switch, Arumugam S., +, *IAJIT July 2006 226-230*.

Pattern recognition

a fingerprint minutiae recognition system based on genetic algorithms, Jaam J., +, *IAJIT July 2006 242-248*.

Performance evaluation

MOSIX evaluation on a Linux cluster, Kofahi N., +, *IAJIT January* 2006 6268.

PIE technique

partial automation of sensitivity analysis by mutant schemata approach, Al-Khanjari Z., *IAJIT January 2006 82-93*.

PiSCES

partial automation of sensitivity analysis by mutant schemata approach, Al-Khanjari Z., *IAJIT January 2006 82-93*.

PKĈS

an XML-based security management model for multilevel security databases, Awadelkarim A., +, *IAJIT April 2006 95 103*.

Possibility theory

an approach to strengthen expert system shell with knowledge illustration established on peak of the fuzzy logic, Alomary A., +, *IAJIT July 2006 210-18*.

Process migration

MOSIX evaluation on a Linux cluster, Kofahi N., +, *IAJIT January*

2006 6268

Public key cryptosystem

on DRSA public key cryptosystem, Padhye S., *IAJIT October* 2006 334-336.

QoS

hierarchical AED scheduling algorithm for real-time networks, Moutaz S., +, *IAJIT July 2006 219225*.

Quantum computing

a novel quantum-inspired evolutionary algorithm for multi-sensor image registration, Talbi H., +, *IAJIT January 2006 9-15*.

Query optimizer

an optimizing query processor with an efficient caching mechanism for distributed databases, Prabha S., +, *IAJIT July 2006 231-236*.

RC5

modified cryptanalysis of RC5, Hassan M., +, *IAJIT October 2006* 299-302.

Real-time

real-time game design of Pac-Man using fuzzy logic, Shaout A., +, *IAJIT October 2006 315-325*.

Real-time network

hierarchical AED scheduling algorithm for real-time networks, Moutaz S., +, *IAJIT July 2006 219-225*.

Recognition

cuneiform symbols recognition using intensity curves, Yousif H., +, *IAJIT July 2006 237-241*.

Regression testing

incremental genetic algorithm, Mansour N., +, *IAJIT January 2006* 42-47

regression test selection for trusted database applications, Haraty R. A., +, *IAJIT October 2006 308-314*.

Resources constraints

protocols for committing mobile transactions, Nouali N., +, *IAJIT April 2006 134-143*.

Rijndael block cipher

a new approach in key generation and expansion in Rijndael algorithm, Ajlouni N., +, *IAJIT January 2006 3541*.

RMI

design and implementation of a two-phase commit protocol simulator, Taibi T., +, *IAJIT January 2006 2027*.

designing a generic marketplace architecture using multi-agent based technology, Aklouf Y., +, *IAJIT July 2006 249-255*.

Routing protocols

ad hoc networks routing protocols and mobility, Djenouri D., +, *IAJIT April 2006 126-133*.

RSA

on DRSA public key cryptosystem, Padhye S., $IAJIT\ October\ 2006\ 334\text{-}38\$.

Scalability

a dynamic sliding load balancing strategy in distributed systems, Dalal'ah A., *IAJIT April 2006 178-182*.

Scalable hardware designs

fast 160-bits GF (P) elliptic curve crypto hardware of high-radix scalable multipliers, Gutub A. A., *IAJIT October 2006 342-349*.

Scheduling

hierarchical AED scheduling algorithm for real-time networks, Moutaz S., +, *IAJIT July 2006 219225* .

Scheduling algorithms

performance of the modified round robin scheduling algorithm for input-queued switches under self-similar traffic, Arumugam S., +, *IAJIT April 2006 165-171*.

Scintigraphic image

two methods for analysis of dynamic scintigraphic images of the heart, Hamrouni K., +, *IAJIT April 2006 118-125*.

Scrapers selection

a knowledge-based decision support system for scraper selection and cost estimation, Eldrandaly K., +, *IAJIT October 2006 337-341*.

Security attacks

requirements for client puzzles to defeat the denial of service and the distributed denial of service attacks, Laurens V., +, *IAJIT October 2006 326-333*.

Segmentation

image segmentation and edge detection based on Chan-Vese algorithm, Salman N., *IAJIT January 2006 6974*.

two methods for analysis of dynamic scintigraphic images of the heart, Hamrouni K., +, *IAJIT April 2006 118-125*.

Self-similar traffic

performance of the modified round robin scheduling algorithm for input-queued switches under self-similar traffic, Arumugam S., +, *IAJIT April 2006 165-171*.

Semantically secure

on DRSA public key cryptosystem, Padhye S., *IAJIT October* 2006 334-336.

Simulation

ad hoc networks routing protocols and mobility, Djenouri D., +, *IAJIT April 2006 126-133*.

Singular value decomposition

incremental learning of auto-association multilayer perceptrons network, Al-Daoud E., *IAJIT January 2006 16 19*.

Soft computing

incremental genetic algorithm, Mansour N., +, *IAJIT January 2006* 42-47.

Software testing agent

evolution of agent-oriented distributed model for software testing: a layered approach, Ponnurangam D., +, *IAJIT April 2006 111-117*.

Spatial networks

integrating GIS-technology for modelling origin-destination trip in multimodal transportation networks, Mouncif H., +, *IAJIT July* 2006 256-264.

Speaker identification

spaker recognition for wire/wireless communication systems , Abdel Fattah M., +, IAJIT January 2006 2834.

Speaker recognition

speaker recognition for wire/wireless communication systems, Abdel Fattah M., +, *IAJIT January* 2006 2834.

Speech recognition

speaker recognition for wire/wireless communication systems, Abdel Fattah M., +, *IAJIT January* 2006 2834.

Split graph

operator decomposition of graphs, Quaddoura R., *IAJIT April* 2006 152-164.

States' superposition

a novel quantum-inspired evolutionary algorithm for multi-sensor image registration, Talbi H., +, *IAJIT January 2006 9-15*.

Stemming

a rule-based extensible stemmer for information retrieval with application to Arabic, Harmanani H., +, *IAJIT July 2006 265-272*.

Symbol

cuneiform symbols recognition using intensity curves, Yousif H., +, IAJIT July 2006 237-241.

Temporal

an optimizing query processor with an efficient caching mechanism for distributed databases, Prabha S., +, *IAJIT July 2006 231-236*.

Testability analysis

partial automation of sensitivity analysis by mutant schemata approach, Al-Khanjari Z., *IAJIT January 2006 82-93*.

Time activity curve

two methods for analysis of dynamic scintigraphic images of the heart, Hamrouni K., +, *IAJIT April 2006 118-125*.

Transaction coordinator

design and implementation of a two-phase commit protocol simulator, Taibi T., +, *IAJIT January 2006 20*27.

Transaction manager

design and implementation of a two-phase commit protocol simulator, Taibi T., +, *IAJIT January 2006 2027*.

Troublemaker

a virtual cooperative learning environment using human companion, Bouhadada T., +, *IAJIT January 2006 48-54*.

Trusted applications

regression test selection for trusted database applications, Haraty R. A., +, *IAJIT October 2006 308-314*.

Uncertainty factor

an approach to strengthen expert system shell with knowledge illustration established on peak of the fuzzy logic, Alomary A., +, *IAJIT July 2006 210-218*.

Unix network server

an extended e-learning system architecture: integrating software tools within the e-learning portal, Al-Khanjari Z., +, *IAJIT January 2006 75-81*.

Unsupervised learning

the evaluation and comparative study with a new clustered based machine learning algorithm, Alomary A., +, *IAJIT October 2006 273-282*.

Watershed

image segmentation based on watershed and edge detection techniques, Salman N., *IAJIT April 2006 104-110*.

Web based course

adaptive instructional planning using neural networks in intelligent learning systems, Seridi H., +, *IAJIT July 2006 183-192*.

WebCT

an extended e-learning system architecture: integrating software tools within the e-learning portal, Al-Khanjari Z., +, *IAJIT January 2006 75-81*.

Webserver

an extended e-learning system architecture: integrating software tools within the e-learning portal, Al-Khanjari Z., +, *IAJIT January 2006 75-81*.

Wireless communication

protocols for committing mobile transactions, Nouali N., +, *IAJIT April 2006 134-143*.

speaker recognition for wire/wireless communication systems, Abdel Fattah M., +, *IAJIT January* 2006 2834.

Wireless networks

ad hoc networks routing protocols and mobility, Djenouri D., +, *IAJIT April 2006 126-133*.

Workgroup learning

an extended e-learning system architecture: integrating software tools within the e-learning portal, Al-Khanjari Z., +, *IAJIT January 2006 75-81*.

XML

an XML-based security management model for multilevel security databases, Awadelkarim A., +, *IAJIT April 2006 95 103*.

Xparser

an optimizing query processor with an efficient caching mechanism for distributed databases, Prabha S., +, *IAJIT July 2006 231-236*.