Publications/Patents Having 100 or More Citations on Google Scholar

Authored by faculty members in Systems and Computer Engineering, and Carleton School of Information Technology

Data compiled on October 29, 2015 and November 5, 2015. Papers listed more than once have multiple authors in selected group.

Faculty Member	Title	citations 2251	year published 2002	citations/year 160.8
Falconer, David Falconer, David	Frequency domain equalization for single-carrier broadband wireless systems Relay-based deployment concepts for wireless and mobile broadband radio	1779	2002	148.3
Yanikomeroglu, Halim	Relay-based deployment concepts for wireless and mobile broadband radio	1777	2004	148.1
Falconer, David	Multihop diversity in wireless relaying channels	653	2004	54.4
Yanikomeroglu, Halim	Multihop diversity in wireless relaying channels	651	2004	54.3
Labiche, Yvan	Is mutation an appropriate tool for testing experiments?	592	2005	53.8
Pagurek, Bernie	Mobile agents for network management	513	1998	28.5
Girouard, Audrey	Reality-based interaction: a framework for post-WIMP interfaces	486	2008	60.8
Kunz, Thomas	The influence of different workload descriptions on a heuristic load balancing scheme	<u>409</u>	1991	16.4
Majumdar, Shikharesh	The stochastic rendezvous network model for performance of synchronous client-server-like distributed software	<u>346</u>	1995	16.5
Petriu, Dorina	The stochastic rendezvous network model for performance of synchronous client-server-like distributed software	<u>346</u>	1995	16.5
Woodside, Murray	The stochastic rendezvous network model for performance of synchronous client-server-like	346	1995	16.5
Falconer, David	Tracking properties and steady-state performance of RLS adaptive filter algorithms	331	1986	11.0
Chan, Adrian	A Gaussian mixture model based classification scheme for myoelectric control of powered upper limb prostheses	<u>315</u>	2005	28.6
Lambadaris, Ioannis	An overview of pricing concepts for broadband IP networks	<u>293</u>	2000	18.3
Labiche, Yvan	A UML-based approach to system testing	<u>233</u> 277	2002	19.8
Yu, Richard	A new method to support UMTS/WLAN vertical handover using SCTP	265	2004	22.1
Petriu, Dorina	The future of software performance engineering	258	2007	28.7
Woodside, Murray	The future of software performance engineering	258	2007	28.7
Franks, Greg	The future of software performance engineering	<u>257</u>	2007	28.6
Labiche, Yvan	Using mutation analysis for assessing and comparing testing coverage criteria	<u>257</u>	2006	25.7
Falconer, David	Relayer selection strategies in cellular networks with peer-to-peer relaying	246	2003	18.9
Yanikomeroglu, Halim	Relayer selection strategies in cellular networks with peer-to-peer relaying	<u>246</u>	2003	18.9
Goubran, Rafik	Robust voice activity detection using higher-order statistics in the LPC residual domain	245	2001	16.3
Mahmoud, Samy	Robust voice activity detection using higher-order statistics in the LPC residual domain	245	2001	16.3
Falconer, David	Application of fast Kalman estimation to adaptive equalization	242	1978	6.4
Yanikomeroglu, Halim	Enhancing cell-edge performance: a downlink dynamic interference avoidance scheme with inter-cell coordination	<u>234</u>	2010	39.0
Huang, Changcheng	Modeling and simulation of self-similar variable bit rate compressed video: a unified approach	<u>234</u>	1995	11.1
Lambadaris, Ioannis	Modeling and simulation of self-similar variable bit rate compressed video: a unified approach	234	1995	11.1
Wainer, Gabriel	CD++: a toolkit to develop DEVS models	233	2002	16.6
Chan, Adrian	Continuous myoelectric control for powered prostheses using hidden Markov models	230	2005	20.9
Banihashemi, Amir	On implementation of min-sum algorithm and its modifications for decoding low-density	227	2005	20.6
Liu, Peter	Iterative solutions of the generalized Sylvester matrix equations by using the hierarchical identification principle	<u>226</u>	2008	28.3
Labiche, Yvan	A UML-based approach to system testing	224	2001	14.9
Yanikomeroglu, Halim	Cooperative relaying in multi-antenna fixed relay networks	223	2007	24.8
Falconer, David	Fast calculation of gain matrices for recursive estimation schemes	221	1978	5.8
Falconer, David	Single carrier modulation with nonlinear frequency domain equalization: an idea whose time	219	2010	36.5
Adler, Andy	Uses and abuses of EIDORS: an extensible software base for EIT	219	2006	21.9
Mahmoud, Samy	Efficient search and design procedures for robust multi-stage VQ of LPC parameters for 4 kb/	219	1993	9.5
Liu, Peter	<u>Identification methods for Hammerstein nonlinear systems</u>	<u>215</u>	2011	43.0
Huang, Changcheng	Efficient resource allocation for device-to-device communication underlaying LTE network	<u>214</u>	2010	35.7
Falconer, David	Range extension without capacity penalty in cellular networks with digital fixed relays	211	2004	17.6

Yanikomeroglu, Halim	Range extension without capacity penalty in cellular networks with digital fixed relays	211	2004	17.6
Falconer, David	<u>Least sum of squared errors (LSSE) channel estimation</u>	210	1991	8.4
Mahmoud, Samy	<u>Least sum of squared errors (LSSE) channel estimation</u>	210	1991	8.4
Adler, Andy	A reevaluation of the validity of unrestrained plethysmography in mice	<u>207</u>	2002	14.8
	Mobility-based predictive call admission control and bandwidth reservation in wireless	207	2002	14.8
Yu, Richard	<u>cellular networks</u>			
Woodside, Murray	Evaluating the scalability of distributed systems	207	2000	12.9
Petriu, Dorina	Performance by unified model analysis (PUMA)	<u>196</u>	2005	17.8
Woodside, Murray	Performance by unified model analysis (PUMA)	196	2005	17.8
Banihashemi, Amir	A heuristic search for good low-density parity-check codes at short block lengths	<u>196</u>	2001	13.1
Chinneck, John	Linear programming with interval coefficients	195	2000	12.2
Huang, Changcheng	Building reliable MPLS networks using a path protection mechanism	193	2002	13.8
Falconer, David	Decision feedback equalization for CDMA in indoor wireless communications	193	1994	8.8
Chinneck, John	Locating minimal infeasible constraint sets in linear programs	<u>192</u>	1991	7.7
	The late, but not early, asthmatic response is dependent on IL-5 and correlates with			
Adler, Andy	eosinophil infiltration	<u>191</u>	1999	11.2
Petriu, Dorina	Applying the UML performance profile: Graph grammar-based derivation of LQN models	<u>189</u>	2002	13.5
retria, Dorma	from UML specifications	105	2002	13.3
Wainer, Gabriel	Discrete-event modeling and simulation: a practitioner's approach	<u>188</u>	2009	26.9
Franks, Greg	Performance analysis of distributed server systems	186	2001	12.4
Falconer, David	Time division multiple access methods for wireless personal communications	182	1995	8.7
Labiche, Yvan	Impact analysis and change management of UML models	<u>181</u>	2003	13.9
Ibnkahla, Mohamed	High-speed satellite mobile communications: technologies and challenges	<u>180</u>	2004	15.0
Chan, Adrian	Wavelet distance measure for person identification using electrocardiograms	<u>179</u>	2008	22.4
Adler, Andy	GREIT: a unified approach to 2D linear EIT reconstruction of lung images	177	2009	25.3
Petriu, Dorina	Sensor-based information appliances	175	2000	10.9
	Auxiliary model based multi-innovation extended stochastic gradient parameter estimation		2222	•••
Liu, Peter	with colored measurement noises	<u>174</u>	2009	24.9
Majumdar, Shikharesh	Scheduling in multiprogrammed parallel systems	174	1988	6.2
Banihashemi, Amir	On Construction of Rate-Compatible Low-Density Parity-Check Codes	173	2004	14.4
Kunz, Thomas	Quality of service routing in ad-hoc networks using OLSR	173	2003	13.3
Labiche, Yvan	Toward the reverse engineering of UML sequence diagrams for distributed Java software	167	2006	16.7
Labicile, I vali		107	2000	10.7
Adler, Andy	<u>Unrestrained plethysmography is an unreliable measure of airway responsiveness in BALB/c</u> and C57BL/6 mice	<u>167</u>	2004	13.9
Banihashemi, Amir		165	2004	13.8
	Improved progressive-edge-growth(PEG) construction of irregular LDPC codes	165 165		
Banihashemi, Amir	On Construction of Rate-Compatible Low-Density Parity-Check Codes	<u>165</u>	2004	13.8
Liu, Peter	Gradient based and least-squares based iterative identification methods for OE and OEMA	<u>153</u>	2010	25.5
	systems Partially coupled stochastic gradient identification methods for non-uniformly sampled			
Liu, Peter	systems	<u>152</u>	2010	25.3
	<u>systems</u>			
Yu, Richard	A distributed consensus-based cooperative spectrum-sensing scheme in cognitive radios	<u>152</u>	2010	25.3
ra, menara	Optimal joint session admission control in integrated WLAN and CDMA cellular networks			
Yu, Richard	with vertical handoff	<u>151</u>	2007	16.8
Woodside, Murray	Performance modeling from software components	151	2004	12.6
Pagurek, Bernie	Towards multi-swarm problem solving in networks	151	1998	8.4
•				
Yanikomeroglu, Halim	Coverage enhancement through two-hop relaying in cellular radio systems	<u>150</u>	2002	10.7
Adler, Andy	Electrical impedance tomography: regularized imaging and contrast detection	<u>150</u>	1996	7.5
Falconer, David	Jointly Adaptive Equalization and Carrier Recovery in Two-Dimensional Digital Communicatio	150	1976	3.8
Liu, Peter	Multiinnovation least-squares identification for system modeling	<u>149</u>	2010	24.8
Adler, Andy	<u>Vulnerabilities in biometric encryption systems</u>	<u>147</u>	2005	13.4
Falconer, David	A multiple access scheme for the uplink of broadband wireless systems	147	2004	12.3
Chinneck, John	Practical optimization: a gentle introduction	<u>142</u>	2006	14.2
Goubran, Rafik	Speech quality prediction in VoIP using the extended E-model	141	2003	10.8
Falconer, David	Method and apparatus for providing high data rate traffic channels in a spread spectrum con	141	1993	6.1
Liu, Peter	Parameter estimation with scarce measurements	<u>140</u>	2011	28.0
Falconer, David	An overview of radio resource management in relay-enhanced OFDMA-based networks	137	2010	22.8

Liu, Peter	Parameter identification and intersample output estimation for dual-rate systems	<u>137</u>	2008	17.1
Yanikomeroglu, Halim	Fixed and mobile relaying technologies for cellular networks	137	2002	9.8
Yanikomeroglu, Halim	An overview of radio resource management in relay-enhanced OFDMA-based networks	136	2010	22.7
Marsland, lan	Threshold selection for SNR-based selective digital relaying in cooperative wireless networks	<u>135</u>	2008	16.9
Yanikomeroglu, Halim	Threshold selection for SNR-based selective digital relaying in cooperative wireless networks	<u>135</u>	2008	16.9
Labiche, Yvan	The impact of UML documentation on software maintenance: An experimental evaluation	<u>133</u>	2006	13.3
Franks, Greg	A toolset for performance engineering and software design of client-server systems	<u>132</u>	1995	6.3
Majumdar, Shikharesh	A toolset for performance engineering and software design of client-server systems	<u>132</u>	1995	6.3
Petriu, Dorina	A toolset for performance engineering and software design of client-server systems	<u>132</u>	1995	6.3
Woodside, Murray Ibnkahla, Mohamed	A toolset for performance engineering and software design of client-server systems Applications of neural networks to digital communications—a survey	132 <u>130</u>	1995 2000	6.3 8.1
Adler, Andy	Monitoring changes in lung air and liquid volumes with electrical impedance tomography	<u>128</u>	1997	6.7
Adler, Andy Labiche, Yvan Woodside, Murray	Sample images can be independently restored from face recognition templates An investigation of graph-based class integration test order strategies Fast allocation of processes in distributed and parallel systems	125 125 125	2003 2003 1993	9.6 9.6 5.4
Yanikomeroglu, Halim	Access strategies for spectrum sharing in fading environment: overlay, underlay, and mixed	<u>124</u>	2010	20.7
Woodside, Murray Pagurek, Bernie	Throughput calculation for basic stochastic rendezvous networks ASGA: Improving the ant system by integration with genetic algorithms	124 122	1989 1998	4.6 6.8
El-tanany, Mohamed	Analytical modeling and simulation of phase noise interference in OFDM-based digital television terrestrial broadcasting systems	118	2001	7.9
Labiche, Yvan	Assessing and improving state-based class testing: A series of experiments	<u>116</u>	2004	9.7
Woodside, Murray Esfandiari, Babak	Enhanced modeling and solution of layered queueing networks On how agents make friends: Mechanisms for trust acquisition	115 <u>115</u>	2009 2001	16.4 7.7
Estationari, Bubuk	PaperPhone: understanding the use of bend gestures in mobile devices with flexible	114	2011	22.8
Girouard, Audrey Franks, Greg	electronic paper displays Enhanced modeling and solution of layered queueing networks	114	2011	16.3
Banihashemi, Amir	Iterative layered space-time receivers for single-carrier transmission over severe time-	114	2004	9.5
Falconer, David	dispersive channels Broadband wireless using single carrier and frequency domain equalization	114	2002	8.1
Banihashemi, Amir	A 0.18-< img src="/images/tex/264. gif" alt="\ mu\ hbox {m}"> CMOS Analog Min-Sum	113	2006	11.3
Labiche, Yvan	Iterative Decoder for a (32, 8) Low-Density Parity-Check (LDPC) Code An experimental investigation of formality in UML-based development	<u>113</u>	2005	10.3
Falconer, David	Fairness-aware radio resource management in downlink OFDMA cellular relay networks	112	2010	18.7
Yanikomeroglu, Halim	Fairness-aware radio resource management in downlink OFDMA cellular relay networks	<u>112</u>	2010	18.7
Huang, Changcheng	MPEG4 traffic modeling using the transform expand sample methodology	<u>112</u>	2002	8.0
Lambadaris, Ioannis	MPEG4 traffic modeling using the transform expand sample methodology	<u>112</u>	2002	8.0
Matrawy, Ashraf Labiche, Yvan	MPEG4 traffic modeling using the transform expand sample methodology Automating impact analysis and regression test selection based on UML designs	<u>112</u> <u>111</u>	2002 2002	8.0 7.9
Petriu, Dorina	Architecture-based performance analysis applied to a telecommunication system	110	2002	6.9
Pagurek, Bernie	Connection management using adaptive mobile agents	110	1998	6.1
raguiek, beillie	Energy-efficient resource allocation for heterogeneous cognitive radio networks with			
Yu, Richard	<u>femtocells</u>	<u>109</u>	2012	27.3
Liu, Peter	Hierarchical Least Squares Identification for Linear SISO Systems with Dual-Rate Sampled- Data	<u>109</u>	2011	21.8
Woodside, Murray	Software performance models from system scenarios in use case maps	108	2002	7.7
Falconer, David	Method and apparatus for using orthogonal coding in a communication system	107	1993	4.7
Petriu, Dorina	A dependability profile within MARTE	<u>106</u>	2011	21.2
Yu, Richard	<u>Distributed optimal relay selection in wireless cooperative networks with finite-state</u> <u>markov channels</u>	<u>106</u>	2010	17.7

Woodside, Murray	Performance model estimation and tracking using optimal filters	106	2008	13.3
Petriu, Dorina	XSLT transformation from UML models to LQN performance models	<u>106</u>	2002	7.6
Kunz, Thomas	Operating systems for wireless sensor networks: A survey	<u>103</u>	2011	20.6
Chinneck, John	Feasibility and Infeasibility in Optimization: Algorithms and Computational Methods	<u>103</u>	2008	12.9
Wainer, Gabriel	Application of the Cell-DEVS paradigm for cell spaces modelling and simulation	<u>103</u>	2001	6.9
Rajan, Sreeraman	Method and apparatus for adaptive line enhancement in Coriolis mass flow meter measurement	<u>102</u>	1996	5.1
Chinneck, John	A general examination scheduling system	<u>100</u>	1994	4.5