Department of Electrical And Computer Engineering

ANNUAL REPORT 2000-2001

Submitted by

David A. Lowther Chairman

June 2001

APPENDIX II PUBLICATIONS

The Departmental publications for the year 2000 will appear on the Departmental website at www.ece.mcgill.ca/publications.

A copy of the publications from the Faculty database is included in the following pages.

Publications

Electrical & Computer Engineering

Professor Eric Adler

Books or Book Chapters

Author(s)

Eric Adler

Title

Bulk and Surface Acoustic Waves in Anisotropic Solids

Journal/

International Journal of High Speed Electronics

Publication:

Volume:

10

Inclusive Page Numbers 653-684

Date:

Mar 2000

Invited

Professor Jan Bajcsy

Other refereed Contributions

Author(s)

J. Bajcsy

Title

Iterative Decoding using Bisection Principle

Journal/

Publication:

Int. Symp. Info. Theory & Appl., Recent Results

Volume:

Inclusive Page Numbers

Date:

Nov 2000

Non-refereed Contributions

Author(s)

H. Leib, J. Bajcsy

Title

Transmit Diversity Concatenated Codes with Iterative Decoding

Journal/

CITR Annual Research Conference

Publication:

Volume:

Inclusive Page Numbers

Date:

Aug 2000

Poster presented in Ottawa

Author(s)

J. Bajcsy

Title

On Coding in Wireless Communication Systems

Journal/

Publication:

Proceedings of Communicate 2000

Volume:

Inclusive Page Numbers online publi

Date:

Jan 2000

Refereéd Journal publications

Author(s)

J. Bajcsy, C.-V. Chong, J. Hunziker, D. Garr, H. Kobayashi

Title

Iterative Decoding in Some Existing Systems

Journal/

IEEE Journal on Selected Areas in Communications

Publication: Volume:

Inclusive Page Numbers X-y

Date:

May 2001

Γitle	Dual-wa	velength, actively mode-loc	ked fiber laser	with 0.7-nm	wavelength
file file	spacing				
fournal/ Publication:	IEE Elec	ctronics Letters			
Volume:	36	Inclusive Page Numbers	1921 - 1923	Date:	Nov 2000
Author(s)	L. R. Ch				
Γitle	Influence intensity	e of grating group delay ripp noise in subcarrier multiple	ple on the redu exed systems	ction of disp	ersion induced
Iournal/ Publication:	Optics C	Communications			
Volume:	187	Inclusive Page Numbers	125-128	Date:	Jan 2001
Author(s)	L. R. Ch	en			
Γitle	XPM-ind	duced intensity distortion du	e to dispersior	in fiber Bra	gg grating filters
Journal/ Publication:	« Optics (Communications			
Volume:	190	Inclusive Page Numbers	141-145	Date:	Apr 2001
Author(s)		nen and P. W. E. Smith			I' Haal CD
Title	Demons using cl	stration of incoherent wavel hirped moiré gratings	length-encodin	g/time-sprea	ading optical CD
Journal/ Publication:	IEEE P	hotonics Technology Letters	s		
Volume:	12	Inclusive Page Numbers	1281 - 1283	Date:	Sep 2000
	James C				
Professor		lark			
Professor Other refered					
	ed Contribu				
Other refere	ed Contribe Z.M. Ha	utions	generation and	I control	
Other refered Author(s) Title Journal/	Z.M. Ha	utions afed and J.J. Clark	generation and	l control	
Other referee Author(s) Title Journal/ Publication:	Z.M. Ha	utions afed and J.J. Clark network model of saccade		l control Date:	May 2000
Other refered Author(s) Title Journal/ Publication: Volume:	Z.M. Ha Neural ARVO	utions afed and J.J. Clark network model of saccade of the conference	s -	Date:	May 2000
Other refered Author(s) Title Journal/ Publication: Volume:	Z.M. Ha Neural ARVO	afed and J.J. Clark network model of saccade of Conference Inclusive Page Numbers oklet and presented orally a	s -	Date:	May 2000
Other refered Author(s) Title Journal/ Publication: Volume: Published in	Z.M. Ha Neural ARVO Abstract boo	afed and J.J. Clark network model of saccade of the conference Inclusive Page Numbers oklet and presented orally a conference Regan, H. Deubel, J.J. Clark	s - at the conferen rk and R.A. Re	Date: ce. nsink	
Other refered Author(s) Title Journal/ Publication: Volume: Published in Refereed Jo	Z.M. Ha Neural ARVO Abstract boo	afed and J.J. Clark network model of saccade of Conference Inclusive Page Numbers oklet and presented orally a fications	s - at the conferen rk and R.A. Re	Date: ce. nsink	
Other refered Author(s) Title Journal/ Publication: Volume: Published in Refereed Jo Author(s)	Z.M. Ha Neural ARVO Abstract boo urnal publi J. K O' Picture	afed and J.J. Clark network model of saccade of the conference Inclusive Page Numbers oklet and presented orally a conference Regan, H. Deubel, J.J. Clark	s - at the conferen rk and R.A. Re	Date: ce. nsink	

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uthor(s)	Saroyan, A., Harris, R., and Cooperstock, J.					
itle	Applying pedagogical principles to teaching and learning with te	echnology.				
ournal/ oblication:	Multi-cultural perspectives on technology in educ.					
olume:	Inclusive Page Numbers ?? Date:	Jan 2000				
Refereed Journ	nal publications					
Author(s)	Xu, A., Woszczyk, Settle, Pennycook, Rowe, Galanter, Bary, Martin, Corey, and Cooperstock, J.R.					
Γitle	Real-Time Streaming of Multichannel Audio Data over Internet					
ournal/ Publication:	Journal of the Audio Engineering Society					
Volume:	48 Inclusive Page Numbers 627-641 Date:	Jul 2000				
Refereed Conf	erence Proceedings					
Author(s)	Hochstein, L, Lerner, S., Clark, J.J. and Cooperstok, J.R.					
Γitle	Socer-Swarm: A Graphical Framework for Soccer Player Design	gn				
Journal/ Publication:	International Symposium on Robotics					
Volume:	Inclusive Page Numbers 108-113 Date:	Jan 2000				
Montreal		W				
Author(s)	Arseneau, S., Sun, W., Zhao, C., and Cooperstock, J.R.					
Title	Inter-layer Learning Towards Emergent Cooperative Behavior	·				
Journal/ Publication:	17th Annual Conference on Artificial Intelligence					
Volume:	Inclusive Page Numbers 3-8 Date:	Jan 2000				
Austin, Texas						
Author(s)	Cooperstock, J.R.					
Title	Classroom of the Future: Enhancing Education through Augm	ented Realiy				
Journal/ Publication:	HCI International 2001					
Volume:	Inclusive Page Numbers ?? Date:	Aug 2001				
New Orleans						
Author(s)	Xu, A. and Cooperstock, J.R.					
Title 1	Real Time Streaming of Multi-Channel Audio through Internet					
Journal/ Publication:	108th Audio Engineering Society Convention					
Volume:	Inclusive Page Numbers ?? Date:	Jan 2000				
fproceedings a	available on CD]					

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uthor(s)	Audette, M.A., Ferrie, F.P., and Peters, T.M.
Title	An Algorithmic Overview of Surface Registration Techniques for Medical Imagi
ournal/ oublication:	Medical Image Analysis
olume:	4 Inclusive Page Numbers 201-217 Date: Sep 2000
Author(s)	Angeles, J., Soucy, G., and Ferrie, F.P.
Γitle	The On-Line Solution of the Hand-Eye Problem
ournal/	IEEE Transactions on Robotics and Automation
Publication: Volume:	16 Inclusive Page Numbers 720-731 Date: Dec 2000
Refereed Cor	nference Proceedings
Author(s)	Arbel, T., and Ferrie, F.P.
Γitle	Recognizing Objects from Curvilinear Motion
Journal/ Publication:	Proc. Eleventh British Machine Vision Conference
Volume:	Inclusive Page Numbers 765-774 Date: Sep 2000
Author(s)	Arbel, T., and Ferrie, F.P.
Title	Interactive Visual Dialog
Journal/	Proc. Eleventh British Machine Vision Conference
Publication: Volume:	Inclusive Page Numbers 755-764 Date: Sep 2000
	Frank Galiana
Non-refereed	d Contributions
Author(s)	G. Jóos, B.T. Ooi, D. McGillis, F.D. Galiana, R. Marceau
Title	The Potential of Distributed Generation to Provide Ancillary Services
	IEEE Summer Power Meeting
Journal/ Publication:	Inclusive Page Numbers 1-7 Date: Jul 2000

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Giannacopoulos, D., and McFee, S. Author(s) Adaptive finite element methods for analyzing the electromagnetic performance Title of microelectronic system interconnections. TRN Recent Research Developments in Magnetics. Journal/ Publication: Nov 2000 Inclusive Page Numbers 83-114 Date: Volume: Invited review. Refereed Conference Proceedings Giannacopoulos, D., and McFee, S. Author(s) The implications of adaptive finite element analysis on electromagnetic Title simulation for microelectronic system interconnections. IEEE Proc. 42nd Midwest Sym. on Circ. & Sys. Journal/ Publication: Aug 2000 Inclusive Page Numbers 325-332 Date: Volume: Giannacopoulos, D., and McFee, S. Author(s) Optimal discretization based adaptive finite element analysis with vector Title tetrahedra. Journal/ Proc. 9th IEEE Conf. Electromag. Field Comp. **Publication:** Jun 2000 Date: Inclusive Page Numbers 179. Volume: Professor Vincent Hayward Other refereed Contributions Gregorio, P., Grant, D., Hayward V. Author(s) Differential Optical Displacement Sensor Title Journal/ US Patent 6020967 Publication: Jan 2000 Date: Inclusive Page Numbers 00 Volume: Hayward, V. Author(s) Mechanism for placing and orienting articles Title Journal/ US patent 6116844 Publication: Jan 2000 Date: Inclusive Page Numbers 00 Volume: Refereed Journal publications

Dupont, P. E., Armstrong, B., Hayward, V.

Title

Elastic-plastic friction model: contact compliance and stiction

Journal/ Publication:

Proc. IEEE American Control Conference

Volume:

Inclusive Page Numbers 1305-1310

Jan 2000 Date:

Books or Book Chapters

Author(s)

Rovan, J., Hayward, V.

Title

Typology of tactile sounds and their systhesis in gesture driven computer music

performance

Journal/ Publication: In "Trends in Gestural Control of Music", Wanderle

Volume:

Inclusive Page Numbers 297-320

Date:

Jan 2000

Author(s)

Havward, V., Armstrong, B.

Title

A new computational model of friction applied to haptic rendering

Journal/ **Publication:** In "Experimental robotics VI", Corke, P. I, Trevel

Volume:

Inclusive Page Numbers 403-412

Date:

Jan 2000

Professor Peter Kabal

Refereed Conference Proceedings

Author(s)

N. Sheikholeslami Alagha and P. Kabal

Title

A filterbank structure for voice-band PCM channel pre-equalization

Journal/

Publication:

Proc. IEEE Int. Conf. Acoustics, Speech, Signal Pr

Volume:

Inclusive Page Numbers 2793-2796

Date:

Jun 2000

Author(s)

T. Islam and P. Kabal

Title

Partial-energy weighted interpolation of linear prediction coefficients

Journal/

Proc. IEEE Workshop on Speech Coding

Publication:

Volume:

Inclusive Page Numbers

105-107

Sep 2000

Author(s)

H. Najafzadeh and P. Kabal

Title

Perceptual bit allocation for low rate coding of narrowband audio

Journal/

Publication:

Proc. IEEE Int. Conf. Acoustics, Speech, Signal Pr

Volume:

Inclusive Page Numbers

893-896

Date:

Date:

Jun 2000

uthor(s)	D.Plant an				
itle	Optical Int	erconnects at the Chip and	d Board Level:	Challenges	and Solutions
ournal/ ublication:	Proceedin	gs of the IEEE			
olume:	88	Inclusive Page Numbers	806-817	Date:	Jan 2000
	1 17				
Author(s)	•	Wei and A. G. Kirk			
Title	Intensity-b Gaussian	pased modal decomposition functions	n of optical bea	ams in term	s of Hermite-
ournal/ Publication:	J. Optical	Society of America A,			
/olume:	17	Inclusive Page Numbers	1086-1091	Date:	Jan 2000
Author(s)		G. Kirk, D V. Plant, J F. Ah on, J A .Tr	nadian, C G. Fo	onstad, K L.	Lear, K Tatah, M
Γitle	Interconne « lasers to a	ection of a two-dimensiona a receiver array via a fiber	al array of verti image guide	cal cavity s	urface emitting
Journal/ Publication:	OSA App	lied Optics			
				Dotos	Jan 2000
Volume:	39	Inclusive Page Numbers	683-689	Date:	
Volume: Author(s)		Inclusive Page Numbers , M Chateauneuf, X Xue, A		Date:	
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Author(s) Fitle Journal/	F Lacroix Experime optical int	, M Chateauneuf, X Xue, A	A G Kirk		ш
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Author(s) Fitle Journal/ Publication: Volume: Author(s) Title Journal/ Publication:	F Lacroix Experime optical int OSA App 39 F. Lacroix Toleranci OSA Opti	M Chateauneuf, X Xue, A ental and numerical analysis terconnects lied Optics Inclusive Page Numbers K, M. Ayliffe and A.G. Kirk and of polarization losses in ics Express,	A G Kirk is of misalignm pp 704-713 in free-space of	Date:	Jan 2000
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Author(s) Fitle Journal/ Publication: Volume: Author(s) Title Journal/ Publication: Volume:	F Lacroix Experime optical int OSA App 39 F. Lacroix Toleranci OSA Opt 7 Inference Pro M. Châte Design, in	M Chateauneuf, X Xue, A ental and numerical analysis terconnects lied Optics Inclusive Page Numbers K, M. Ayliffe and A.G. Kirk and of polarization losses in ics Express, Inclusive Page Numbers	pp 704-713 n free-space op 381-392 s, A.G. Kirk	Date: Date:	Jan 2000 Jan 2000 Jan 2000
Author(s) Fitle Journal/ Publication: Volume: Author(s) Title Journal/ Publication: Volume: Refereed Co Author(s)	F Lacroix Experime optical int OSA App 39 F. Lacroix Toleranci OSA Opt 7 Inference Pro M. Châte Design, in a modula	M Chateauneuf, X Xue, A chatal and numerical analysisterconnects lied Optics Inclusive Page Numbers K, M. Ayliffe and A.G. Kirk and of polarization losses in ics Express, Inclusive Page Numbers Decedings Fauneuf, F. Thomas-Dupuit mplementation, and chara	pp 704-713 n free-space op 381-392 s, A.G. Kirk acterization of a	Date: Date:	Jan 2000 Jan 2000 Jan 2000

Fabrice Labeau

Title

Joint source-channel coding and related techniques

Journal/

Publication:

Revue HF Tijdschrift

Volume:

Inclusive Page Numbers 25-37

Date:

Jan 2001

Revue de la Societe Belge des Ingenieurs de Telecommunications

Professor	Tho Le-	Ngoc
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Author(s)

Weng, J.F., Le-Ngoc, T., Xue, GQ, Tahar, S.,

Title

Multilevel Quantized Soft-Limiting Detector for an FH-SSMA System

Journal/

Journal of Communications and Networks

Publication: Volume:

2

Inclusive Page Numbers 379-388

Date:

Dec 2000

Author(s)

¿ Le-Ngoc, T., Elshabrawy, T.,

Title

Broadband Satellite Access For Interactive Multimedia Services

Journal/

Space Communications Journal (Special Issue on On-

Publication:

Volume:

Inclusive Page Numbers

(accepted)

Date:

Date:

May 2001

Author(s)

Le-Ngoc, T., Subramanian, S.N.

Title

Pareto Modulated Poisson Process (PMPP) Model for Long-Range Dependent

123-132

Traffic

Journal/

Publication: Volume:

Computer Communications

Inclusive Page Numbers

Jan 2000

Author(s)

Xiang, ZJ., Le-Ngoc, T., Bi GG.,

Title

Performance of Coherent MQAM Schemes in the Presence of Frequency-

Selective Rayleigh Fading and CCI

Journal/

Publication:

Journal on Special Topics in Mobile Networks and A

Volume:

5

4

Inclusive Page Numbers 73-84

Date:

Mar 2000

Author(s)

Xue, GQ, Weng, J.F., Le-Ngoc, T., Tahar, S.,

Title

An Analytical Model for Performance Evaluation of Parallel Interference

Cancellers in CDMA Systems

Journal/ Publication:

IEEE Communications Letters

Volume:

Inclusive Page Numbers 184-186

Date:

Jun 2000

author(s)	Gu, YH., Le-Ngoc,T.,
Title	An Adaptive Combined DFE/RSSE Structure for Unknown Channel with Severe ISI
ournal/ Publication:	Wireless Personal Communications
olume:	14 Inclusive Page Numbers 13-27 Date: Jul 2000
Author(s)	Xue, GQ, Weng, J.F., Le-Ngoc, T.,
Γitle	Impact of Imperfect Power Control and Channel Estimation on the Performance of Multiuser Detectors in Synchronous DS-CDMA Systems
Journal/ Publication:	Wireless Personal Communications
Volume:	Inclusive Page Numbers (accepted) Date: Jun 2001
Refereed Con	nference Proceedings
Author(s)	Besbes, H., Le-Ngoc, T., Lin, H.,
Γitle	" Fast Adaptive Digital Predistortion Techniques
Journal/ Publication:	WPMC'00
Volume:	Inclusive Page Numbers (5 pages) Date: Dec 2000
Author(s)	Elshabrawy, T.O, Le-Ngoc, T., Tahar, S.,
Title	Two-way Broadband Satellite Access for Interactive Multimedia Services
Journal/	Int. Conference on Telecommunications(ICT2000)
Publication: Volume:	Inclusive Page Numbers (5 pages) Date: May 2000
Author(s)	Garjani,A., Le-Ngoc, T., Khendek, F.,
Title	Inter-LAN Services over Broadband Satellite Systems
Journal/ Publication:	Int. Conference on Telecommunications (ICT2000)
Volume:	Inclusive Page Numbers (5 pages) Date: May 2000
Author(s)	Lynch, W.E., Le-Ngoc, T.,
Title	Syntax and Discontinuity Based Error Concealment for Compressed Video in a Packet Environment
Journal/ Publication:	ITCC 2001
Volume:	Inclusive Page Numbers (5 pages) Date: Apr 2001

Y. Huang, H. Leib Author(s) SINR maximzing space-time filtering for asynchronous DS-CDMA Title Journal/ IEEE Journal on Selected Areas in Communications **Publication:** Inclusive Page Numbers 1191-1202 Jul 2000 Date: Volume: 18 E. Malkamaki, H. Leib Author(s) Performance of truncated type II hybrid ARQ schemes with noisy feedback over Title block fading channels Journal/ IEEE transactions on Communications **Publication:** Sep 2000 Inclusive Page Numbers 1477-1487 Date: 48 Volume: Professor Martin Levine Refereed Journal publications ¿ Ziad M. Hafed, Martin D. Levine Author(s) Face Recognition Using the Discrete Cosine Transform Title International Journal of Computer Vision Journal/ **Publication:** Jan 2001 Inclusive Page Numbers in press Date: Volume: Books or Book Chapters Anthony HF Lau Martin Levine Author(s) Finding a Small Number of Regions in an Image using Low-level features Title Journal/ Pattern Recognition Journal Publication: Jan 2001 Inclusive Page Numbers in review Date: Volume: John S Zelek and Martin Levine, Author(s) Local-Gobal Concurrent Path Planning and Execution Title IEEE Transactions on Systems, Man, & Cybernetics Journal/ Publication: Nov 2000 Inclusive Page Numbers 865-870 Date: 30 Volume:

Professor David Lowther

Refereed Journal publications

Vo.Q., Lowther, D.A. Author(s) Electromagnetic device design: An architecture for a multi-reasoning approach Title Journal/ Digests of the 9th Biennial Conf. on EM Field Comp Publication: Jun 2001 Date: Inclusive Page Numbers 144 Volume: Mohammed, O., Lowther, D.A., Lean, M., Alhalabi, B. Author(s) On the creation of a generalized design optimization environment for Title electromagnetic devices Journal/ Digests of the 9th Biennial Conf. on EM Field Comp **Publication:** Jun 2000 Inclusive Page Numbers 138 Date: Volume: Professor Steve McFee Refereed Journal publications « S. McFee and D. Giannacopoulos (Dennis was PDF) Author(s) Optimal discretizations in adaptive finite element electromagnetics Title Journal/ IJNME Publication: Nov 2000 1-44 Date: Inclusive Page Numbers Volume: S. McFee and D. Giannacopoulos (McFee invited to contribute paper; Dennis was Author(s) PDF) Adaptive finite element methods for analyzing the electromagnetic performance Title of microelectronic system interconnections TRN Recent Research Developments in Magnetics Journal/ **Publication:** Jun 2000 Inclusive Page Numbers 83-114 Date: Volume: Refereed Conference Proceedings S. McFee and D. Giannacopoulos (Dennis was PhD student) Author(s) The implications of adaptive finite element analysis on electromagnetic Title simulation for microelectron Journal/ IEEE Proceeding of Midwest Symposium on Circuits a Publication: Jan 2000 325-332 Date: **Inclusive Page Numbers** Volume: S. McFee and Donglin Ma Author(s) Irregular tetrahedra for finite element analysis in electromagnetics Title Journal/ IEEE Proceedings of CEFC'2000 Publication: Jun 2000 Inclusive Page Numbers 212-Date: Volume:

Hannah Michalska Alexandre Jouan Benoit Jarry

Title

Tracking closely maneuvering targets in clutter

with an IMM-JVC algorithm

Journal/

Proc. 3rd International Conf. on Data Fusion

Publication: Volume:

1

Inclusive Page Numbers MoD2-10 -

Date:

Jul 2000

ISIF Fusion 2000 Conference, Paris, July 10-13, 2000.

Professor Radu Negulescu

Refereed Journal publications

Author(s)

J.A. Brzozowski, R. Negulescu

Title

Automata of Asynchronous Behaviors

Journal/ Publication: Theoretical Computer Science

Volume:

Inclusive Page Numbers 113-128

Date:

Jan 2000

Refereed Conference Proceedings

Author(s)

H. Hallal, R. Negulescu, A. Petrenko

Title

Design of divergence-free protocol converters using supervisory control

techniques

Journal/

IEEE Int Conf on Electronics, Circuits and Systems

Publication:

Volume:

Inclusive Page Numbers 705-708

Date:

Dec 2000

An IEEE conference

Proceedings of the Seventh IEEE International Conference on Electronics, Circuits and Systems

Author(s)

R. Negulescu

Title

Process spaces

Journal/

Int. Conf. on Concurrency Theory

Publication:

Volume: Inclusive Page Numbers 196-210

Date:

Aug 2000

Proceedings of the 11th International Conference in Concurrency Theory (CONCUR) is a top conference on modeling concurrent systems.

Author(s)

S.Laberge, R. Negulescu

Title

An asynchronous FIFO: case study in speed-optimizations

Journal/
Publication:

IEEE Int Conf on Electronics, Circuits and Systems

Volume:

Inclusive Page Numbers 755-758

Date:

Dec 2000

An IEEE conference

Proceedings of the Seventh IEEE International Conference on Electronics, Circuits and Systems

Professor Boon-Teck Ooi

Non-refereed Contributions

uthor(s)	Plant, A.G						
'itle	Design, im spot array	plementation, and charac generator for a modulator	terization of a based optica	kinematicall Ifree-space	y aligned cascad optical backplane		
ournal/ oublication:	Applied O	Applied Optics					
olume:	39	Inclusive Page Numbers	733-745	Date:	May 2000		
Author(s)	T. Maj, A.G. Kirk, D.V. Plant, J. Ahadian, C. Fonstad, K. Lear, K. Tatah, M. Robinson, J.A. Trezza						
Γitle	Interconne lasers to a	Interconnection of a two-dimensional array of vertical cavity surface emitting lasers to a receiver array by means of a fiber image guide					
lournal/	Applied O	ptics					
Publication: Volume:	39	Inclusive Page Numbers	683-689	Date:	May 2000		
Professor (Gordon Ro	berts			15		
Refereed Jou	ırnal publica	tions					
Author(s)	V. Leung	and G.W. Roberts					
Author(s) Title	Effects O	and G.W. Roberts f Transistor Non-Idealities y Response	on High-Ord	ler Log-Doma	ain Ladder Filter		
Title Journal/	Effects O Frequenc	f Transistor Non-Idealities		ler Log-Doma	ain Ladder Filter		
Title	Effects O Frequenc	f Transistor Non-Idealities y Response	ns-II	ler Log-Doma	ain Ladder Filter May 2000		
Title Journal/ Publication: Volume:	Effects O Frequenc	f Transistor Non-Idealities y Response ns. on Circuits and Syster	ns-II				
Title Journal/ Publication:	Effects O Frequenc IEEE Tra B. Dufort Increasin	f Transistor Non-Idealities y Response ns. on Circuits and Syster Inclusive Page Numbers	ms-II 373-387	Date:	May 2000		
Title Journal/ Publication: Volume: Author(s) Title Journal/	Effects O Frequence IEEE Tra B. Dufort Increasin Coding T	f Transistor Non-Idealities y Response ns. on Circuits and Syster Inclusive Page Numbers and G. W. Roberts g the Performance of Arb	ns-II 373-387 itary Function	Date:	May 2000		
Title Journal/ Publication: Volume: Author(s) Title	Effects O Frequence IEEE Tra B. Dufort Increasin Coding T	f Transistor Non-Idealities y Response ns. on Circuits and Syster Inclusive Page Numbers and G. W. Roberts g the Performance of Arb echniques	ns-II 373-387 itary Function	Date:	May 2000		
Title Journal/ Publication: Volume: Author(s) Title Journal/ Publication:	Effects O Frequence IEEE Tra B. Dufort Increasin Coding T IEEE Tra 49	f Transistor Non-Idealities y Response ns. on Circuits and Syster Inclusive Page Numbers and G. W. Roberts g the Performance of Arb echniques ns. on Instruments and M Inclusive Page Numbers	ns-II 373-387 itary Function	Date:	May 2000 Using Sigma-Deli		
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Title Journal/ Publication: Volume: Author(s) Title Journal/ Publication: Volume: Refereed Co	Effects O Frequence IEEE Tra B. Dufort Increasin Coding T IEEE Tra 49 Inference Pro M. Hafed	f Transistor Non-Idealities y Response ns. on Circuits and Syster Inclusive Page Numbers and G. W. Roberts g the Performance of Arb echniques ns. on Instruments and M Inclusive Page Numbers occeedings I, N. Abaskharoun, and G Alone Integrated Test Co	itary Function leasurements 188-199	Date: Generators Date:	May 2000 Using Sigma-Delt		
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Author(s)	Vo.Q., Lowther,D.A.					
Γitle	Electromagnetic device design: An architecture	for a multi-rea	soning approach			
Journal/	Digests of the 9th Biennial Conf. on EM Field C	Comp				
Publication: Volume:	Inclusive Page Numbers 144	Date:	Jun 2001			
Author(s)	Mohammed, O., Lowther, D.A., Lean, M., Alhalai	oi,B.				
Γitle	On the creation of a generalized design optimization environment for electromagnetic devices					
Journal/ Publication:	Digests of the 9th Biennial Conf. on EM Field C	Comp				
Volume:	Inclusive Page Numbers 138	Date:	Jun 2000			
Professor :	Steve McFee		507			
Refereed Jou	ırnal publications		<u> </u>			
Author(s)	" S. McFee and D. Giannacopoulos (Dennis was	PDF)				
Title	Optimal discretizations in adaptive finite eleme	ent electromag	netics			
Journal/ Publication:	IJNME					
Volume:	Inclusive Page Numbers 1-44	Date:	Nov 2000			
volume.						
Author(s)	S. McFee and D. Giannacopoulos (McFee invi	ted to contribu	te paper; Dennis was			
	S. McFee and D. Giannacopoulos (McFee invi					
Author(s)	S. McFee and D. Giannacopoulos (McFee invi PDF) Adaptive finite element methods for analyzing	the electroma				
Author(s) Title Journal/	S. McFee and D. Giannacopoulos (McFee invi PDF) Adaptive finite element methods for analyzing of microelectronic system interconnections	the electroma				
Author(s) Title Journal/ Publication: Volume:	S. McFee and D. Giannacopoulos (McFee invi PDF) Adaptive finite element methods for analyzing of microelectronic system interconnections TRN Recent Research Developments in Magn	the electromagnetics	gnetic performance			
Author(s) Title Journal/ Publication: Volume:	S. McFee and D. Giannacopoulos (McFee invi PDF) Adaptive finite element methods for analyzing of microelectronic system interconnections TRN Recent Research Developments in Magn Inclusive Page Numbers 83-114	the electromagnetics Date:	gnetic performance Jun 2000			
Author(s) Title Journal/ Publication: Volume: Refereed Co.	S. McFee and D. Giannacopoulos (McFee invi PDF) Adaptive finite element methods for analyzing of microelectronic system interconnections TRN Recent Research Developments in Magn Inclusive Page Numbers 83-114 Inference Proceedings	the electromagnetics Date: s PhD student)	gnetic performance Jun 2000			
Author(s) Title Journal/ Publication: Volume: Refereed Co. Author(s)	S. McFee and D. Giannacopoulos (McFee invi PDF) Adaptive finite element methods for analyzing of microelectronic system interconnections TRN Recent Research Developments in Magn Inclusive Page Numbers 83-114 Inference Proceedings S. McFee and D. Giannacopoulos (Dennis was The implications of adaptive finite element and	the electromagnetics Date: s PhD student) alysis on electromagnetics	Jun 2000 omagnetic			
Author(s) Title Journal/ Publication: Volume: Refereed Co. Author(s) Title Journal/	S. McFee and D. Giannacopoulos (McFee inviPDF) Adaptive finite element methods for analyzing of microelectronic system interconnections TRN Recent Research Developments in Magn Inclusive Page Numbers 83-114 Inference Proceedings S. McFee and D. Giannacopoulos (Dennis was the implications of adaptive finite element and simulation for microelectron	the electromagnetics Date: s PhD student) alysis on electromagnetics	gnetic performance Jun 2000			
Author(s) Title Journal/ Publication: Volume: Refereed Co. Author(s) Title Journal/ Publication:	S. McFee and D. Giannacopoulos (McFee inviPDF) Adaptive finite element methods for analyzing of microelectronic system interconnections TRN Recent Research Developments in Magn Inclusive Page Numbers 83-114 Inference Proceedings S. McFee and D. Giannacopoulos (Dennis was the implications of adaptive finite element and simulation for microelectron IEEE Proceeding of Midwest Symposium on Company of the implication of Midwest Symposium on Company of the implication of Midwest Symposium on Company of Mi	the electromagnetics Date: S PhD student) alysis on electromagnetics	Jun 2000 comagnetic			
Author(s) Title Journal/ Publication: Volume: Refereed Co. Author(s) Title Journal/ Publication: Volume:	S. McFee and D. Giannacopoulos (McFee invipolar) Adaptive finite element methods for analyzing of microelectronic system interconnections TRN Recent Research Developments in Magninelusive Page Numbers 83-114 Inclusive Page Numbers 83-114 Inference Proceedings S. McFee and D. Giannacopoulos (Dennis was The implications of adaptive finite element ansimulation for microelectron IEEE Proceeding of Midwest Symposium on Council Inclusive Page Numbers 325-332	the electromagnetics Date: S PhD student) alysis on electr Circuits a Date:	Jun 2000 romagnetic Jan 2000			
Author(s) Title Journal/ Publication: Volume: Refereed Co. Author(s) Title Journal/ Publication: Volume: Author(s)	S. McFee and D. Giannacopoulos (McFee inviPDF) Adaptive finite element methods for analyzing of microelectronic system interconnections TRN Recent Research Developments in Magninal Inclusive Page Numbers 83-114 Inclusive Page Numbers 83-114 Interest Proceedings S. McFee and D. Giannacopoulos (Dennis was simulation for microelectron IEEE Proceeding of Midwest Symposium on Conclusive Page Numbers 325-332 S. McFee and Donglin Ma	the electromagnetics Date: S PhD student) alysis on electr Circuits a Date:	Jun 2000 romagnetic Jan 2000			

Hannah Michalska Alexandre Jouan Benoit Jarry

Title

Tracking closely maneuvering targets in clutter

with an IMM-JVC algorithm

Journal/

Proc. 3rd International Conf. on Data Fusion

Publication: Volume:

Inclusive Page Numbers MoD2-10 -

Date:

Jul 2000

ISIF Fusion 2000 Conference, Paris, July 10-13, 2000.

Professor Radu Negulescu

Refereed Journal publications

Author(s)

J.A. Brzozowski, R. Negulescu

Title

Automata of Asynchronous Behaviors

Journal/

Theoretical Computer Science

Publication: Volume:

Inclusive Page Numbers 113-128

Jan 2000 Date:

Refereed Conference Proceedings

Author(s)

H. Hallal, R. Negulescu, A. Petrenko

Title

Design of divergence-free protocol converters using supervisory control

techniques

Journal/

IEEE Int Conf on Electronics, Circuits and Systems

Publication:

Volume:

Inclusive Page Numbers 705-708

Date:

Dec 2000

An IEEE conference

Proceedings of the Seventh IEEE International Conference on Electronics, Circuits and Systems

Author(s)

R. Negulescu

Title

Process spaces

Journal/ Publication:

Int. Conf. on Concurrency Theory

Volume:

Inclusive Page Numbers 196-210

Date:

Aug 2000

Proceedings of the 11th International Conference in Concurrency Theory (CONCUR) is a top

conference on modeling concurrent systems.

Author(s)

S.Laberge, R. Negulescu

Title

An asynchronous FIFO: case study in speed-optimizations

Journal/ Publication:

IEEE Int Conf on Electronics, Circuits and Systems

Volume:

Inclusive Page Numbers 755-758

Date:

Dec 2000

An IEEE conference

Proceedings of the Seventh IEEE International Conference on Electronics, Circuits and Systems

Professor Boon-Teck Ooi

Non-refereed Contributions

Author(s)	D.FBrosseau, F. Lacroix, M.H. Ayliffe, E. Bernier, B. Robertson, F. Tooley, D.V. Plant, A.G. Kirk						
Γitle	Design, implementation, and characterization of a kinematically aligned cascaded spot array generator for a modulator based optical free-space optical backplane						
ournal/ Publication:	Applied Optics						
Volume:	39 I	nclusive Page Numbers	733-745	Date:	May 2000		
Author(s)	T. Maj, A.G. Kirk, D.V. Plant, J. Ahadian, C. Fonstad, K. Lear, K. Tatah, M. Robinson, J.A. Trezza						
Γitle	Interconnect lasers to a re	ion of a two-dimensiona eceiver array by means	nl array of vert of a fiber imag	ical cavity su ge guide	urface emitting		
Journal/ Publication:	Applied Opti	cs					
Volume:	39 I	nclusive Page Numbers	683-689	Date:	May 2000		
Professor G	ordon Robe	erts	EV.				
Refereed Jour	nal publicatio	ns					
Author(s)	V. Leung an	d G.W. Roberts					
Title	Effects Of T Frequency F	ransistor Non-Idealities Response	On High-Orde	er Log-Doma	in Ladder Filter		
Journal/ Publication:	IEEE Trans.	on Circuits and System	ns-II		0		
Volume:]	nclusive Page Numbers	373-387	Date:	May 2000		
Author(s)	B. Dufort an	d G. W. Roberts					
Title	Increasing to Coding Tech	ne Performance of Arbitaniques	tary Function (Generators (Jsing Sigma-Delta		
Journal/ Publication:	IEEE Trans.	on Instruments and Me	easurements				
Volume:	49	Inclusive Page Numbers	188-199	Date:	Feb 2000		
Refereed Con	ference Proce	edings			THE RESERVE		
Author(s)		. Abaskharoun, and G.	W. Roberts				
	A Stand-Alone Integrated Test Core For Time And Frequency Domain Measurements						
Title							
Title Journal/ Publication:	Measureme				Oct 2000		

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D

A.A. Hamoui and N.C.Rumin

Title

An analytical model for current, delay, and power

analysis of submicron CMOS logic circuits

Journal/

IEEE Transactions on Circuits and Systems II:ADSP

Publication: Volume:

47

Inclusive Page Numbers 999-1007 Date: Oct 2000

Professor Ishiang Shih

Refereed Journal publications

Author(s)

H.P. Wang, I. Shih and C.H. Champness

Title

Studies on Monocrystalline CulnSe2 and Culn2Se5

Journal/

Thin Solid Films

Publication:

361

Volume:

Inclusive Page Numbers 494-497

Feb 2000 Date:

Refereed Conference Proceedings

Author(s)

H.P. Wang, I. Shih and C.H. Champness

Title

Bridgman-grown Ingots from Culn3Se5

Journal/

Proc.16th European Photovoltaic Solar Energy Conf.

Publication:

Volume:

Inclusive Page Numbers 702-705

Date:

May 2000

Crystals of Culn3Se5 have been grown by the Bridgman method. These were studied by X-ray and electrical measurements. The results showed that the Culn3Se5 crystals are highly compensated with high electrical resistivity.

Author(s)

H.P. Wang, I. Shih and C.H. Champness

Title

Characteristics of CuInSe2 Bridgman Ingots Grown with Sodium

Journal/

28th IEEE Photovoltaic Specialists Conf.

Publication: Volume:

Inclusive Page Numbers 642-645

Sep 2000

Crystals of CulnSe2 grown by the Bridgman method with 0.05, 0.25 and 2 at.% of Na were obtained. Lattice constants were obtained by X-ray diffraction. Electrical resistivity, carrier density and mobilities have been determined on these crystals.

Professor Jonathan Webb

Refereed Journal publications

Author(s)

H. Akel, J. P. Webb

Title

Design sensitivities for scattering-matrix calculation with tetrahedral edge

elements

Journal/

IEEE Trans. on Magnetics

Publication: Volume:

36

Inclusive Page Numbers 1043-1046

Date:

Jul 2000

M. M. Gavrilovic, J. P. Webb

Title

An error estimator for design sensitivities of microwave device parameters

Journal/
Publication:

Finite Element Workshop for Microwave Engineereing

N.T. I

Volume:

Inclusive Page Numbers 14

Date:

Jun 2000

Professor Zeljko Zilic

Other refereed Contributions

Author(s)

L. R. Albu, Z. Zilic, W-B. Leung, R. Stuby, J. Thompson and B. Britton

Title

A Programmable Clock Manager that Can Implement Delay-Locked

Loop Function

Journal/ Publication:

US Patent 6043677

Volume:

Inclusive Page Numbers 1-34

Date:

Mar 2000

Author(s)

« L. R. Albu, Z. Zilic, W-B. Leung, R. Stuby, J. Thompson and B. Britton

Title

A Programmable Clock Manager that Can Generate at Least Two

Different Clocks

100

Journal/ Publication:

US Patent 6028463

Volume:

Inclusive Page Numbers 1-34

Date:

Feb 2000

Author(s)

L. R. Albu, Z. Zilic, W-B. Leung, R. Stuby, J. Thompson and B. Britton

Title

A Programmable Clock Manager that Can be Programmed without

Reconfiguring the Device

Journal/

Publication:

US Patent 6060902

Volume:

I ubilcation.

Inclusive Page Numbers 1-34

Date:

May 2000

Author(s)

Z. Zilic, H. Nguyen, G. Powell, W-B. Andrews and R. Stuby

Title

Signalling Voltage Range Discriminator

Journal/

US Patent 6124732

Publicatio Volume:

Publication:

Inclusive Page Numbers 1-23

Date:

Oct 2000

Patent Granted

Author(s)

I. Brynjolfson and Z. Zilic

Title

Dynamic Programmable Clock Divider

Journal/

US Patent (Submitted after McGill, lawyer review)

Publication:

Volume:

Inclusive Page Numbers 1-43

Date:

Nov 2000

Refereed Conference Proceedings

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