Cornell Library Anne	x Interlibrary Loan
Evans	Olin Interlibrany Compiese valie ile lendine Grand III. I
From: Sent:	Olin Interlibrary Services <olin-ils-lending@cornell.edu> Monday, December 22, 2014 1:29 PM</olin-ils-lending@cornell.edu>
To:	Cornell Library Annex Interlibrary Loan
Subject:	ILL Request TN1164424 RUSH
Jubject.	ALL Neguest INTIO4424 NOSII
number of scans/.pdf d Stamp for this volume. the	ocument posted on server N>B>: Let us know before copying if there is no Date Received anks
COPY REQUEST - TN: 11	64424 RUSH
Please send the following INTERLIBRARY SERVICES, (volume OR scan of the cited article to: OLIN LIBRARY
Location: Li CALL NUMBER: TK3001.A	brary Annex 1 A43 RUSH
JOURNAL or MONOGRAPI RUSH	H TITLE: Proceedings: annual Allerton Conference on Communication, Control, and Computing
VOL/ISSUE/DATE/PGS: 3	Title page, TOC, and DATE RECEIVED STAMP
ARTICLE: Title page, TO	C, and DATE STAMP of 1999 edition (37th year)
ILL number: 02109 D	Patron:
Requesting Library:	
	/ilmer Cutler Pickering Hale & Dorr
	ttn: Wendi Hoffenberg , Library
	O State St. oston, MA 02109
Odyssey:	
Request type: Unaffiliated	d \$80
from the collections of the property of the requestor the permission of the cop	MAY BE PROTECTED BY COPYRIGHT LAW (TITLE 17 U.S. CODE) This copy has been provided a Cornell University Library in conformance with U.S. copyright law. It is to become the , and is only to be used for personal study, scholarship, or research. Any other use may require yright owner. It is the responsibility of the person requesting this item to make an nent of any proposed use and to secure any necessary permissions.
If you are unable to fill thiIn useIn process	s request, please check one of the reasons below:



PROCEEDINGS

THIRTY-SEVENTH ANNUAL ALLERTON CONFERENCE ON COMMUNICATION, CONTROL, AND COMPUTING

3 1924 077 849 721

Bruce Hajek R.S. Sreenivas Conference Co-Chairs



Conference held September 22, September 23, and September 24, 1999 Allerton House Monticello, Illinois

Sponsored by
The Coordinated Science Laboratory
and
The Department of Electrical and Computer Engineering
of the
UNIVERSITY OF ILLINOIS
at
Urbana-Champaign



TABLE OF CONTENTS

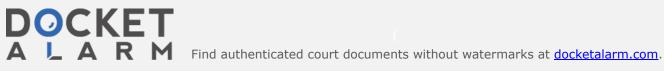
FORWORD	***************************************	********
	WORKS I S.P. Meyn and R. Srikant (University of Illinois at Urbana-Champaign) S.P. Meyn (University of Illinois at Urbana-Champaign)	
REPRESENTATION AND F. Baccelli, S. Gaul	EXPANSION OF (MAX, PLUS) LYAPUNOV EXPONENTSbert, and D. Hong	1
MARTINGALE PROBLEM T.G. Kurtz and R.F.	1S AND LINEAR PROGRAMS FOR SINGULAR CONTROL	11
STATIONARY REFLECTE T. Konstantopoulos	ED LÉVY PROCESSES IN STOCHASTIC NETWORKSs and G. Last	21
ON THE IMPACT OF VAR Y. Joo, V. Ribeiro,	RIABILITY ON THE BUFFER DYNAMICS IN IP NETWORKS	30
QUEUEING NETWORKS M. Armony and N.	WITH INTERACTING SERVICE RESOURCESBambos	42
Organizers:	: DECODING AND CHANNELS R. Koetter and R.E. Blahut (University of Illinois at Urbana-Champaign) A. Vardy (University of California, San Diego)	
A NEW UPPER BOUND O A. Ashikhmin, A. B	N THE RELIABILITY FUNCTION OF THE GAUSSIAN CHANNEL	52
RECURSIVE DECODING (I. Dumer	OF REED-MULLER CODES	61
LOSSLESS COMPRESSION J.L. Fan, B. Marcus	N IN CONSTRAINED CODING, and R. Roth	70
	-EVENT-DYNAMIC SYSTEMS R.S. Sreenivas (University of Illinois at Urbana-Champaign)	
MODELLING OF TIMED D R.S. Minhas and W.	DISCRETE EVENT SYSTEMS	75
NTERACTING DISCRETE S. Abdelwahed and	EVENT SYSTEMSW.M. Wonham	85
STABILITY ANALYSIS FO S. Yamamoto and T	OR INTERCONNECTED HYBRID SYSTEMS	93





DECENTRALIZED SUPERVISORY CONTROL OF CONCURRENT DISCRETE EVENT SYSTEMS WITH PARTIAL OBSERVATIONS	103
A NEW PROBABILISTIC APPROACH TO CONGESTION CONTROL IN COMMUNICATION NETWORKS H. Mortazavian and J. Mirkovic	. 113
A BIGRAPH MATCHING THEOREMS. Ayyorgun and R.L. Cruz	, 124
I-D: ACTIVE NETWORKS Organizer/Chair: Y. Shavitt (Bell Labs, Lucent Technologies)	
CHUNKS IN PLAN: LANGUAGE SUPPORT FOR PROGRAMS AS PACKETS	. 127
ON THE INTERFACE OF PROGRAMMABLE NETWORK ELEMENTS	. 137
BOWMAN AND CANES: IMPLEMENTATION OF AN ACTIVE NETWORK	. 147
DESIGN OF A FLEXIBLE OPEN PLATFORM FOR HIGH PERFORMANCE ACTIVE NETWORKSS. Choi, D. Decasper, J. Dehart, R. Keller, J. Lockwood, J. Turner, and T. Wolf	157
IMPLEMENTING A CONCAST SERVICE	166
ACTIVE DISTRIBUTED MANAGEMENT FOR IP NETWORKS	176
I-F: SPACE-TIME METHODS FOR COMMUNICATION Chair: D. Sarwate (University of Illinois at Urbana-Champaign)	
NEW APPROACH FOR SPACE-TIME TRANSMITTER/RECEIVER DESIGN	186
INTERFERENCE SUPPRESSION FOR CDMA VIA A SPACE-TIME POWER MINIMIZATION BASED PREPROCESSOR WITH APPLICATIONS TO GPS W.L. Myrick, M.D. Zoltowski, and J.S. Goldstein	
SOFT-WEIGHTED TRANSMIT DIVERSITY FOR WCDMA	204
MULTIUSER DETECTION TECHNIQUES FOR COMBINED ARRAY PROCESSING AND SPACE-TIME BLOCK CODINGB. Lu and X. Wang	214
A TRANSMIT ADAPTIVE ANTENNA SCHEME WITH FEEDBACK FOR WIRELESS COMMUNICATIONS	216





Organizers:	II: ITERATIVE DECODING AND TURBO CODES R. Koetter and R.E. Blahut (University of Illinois at Urbana-Champaign) R. Koetter (University of Illinois at Urbana-Champaign)	
CONCENTRATE T. Richardson and	D. Urbanka	22
EFFICIENT ENCODING C T. Richardson and	F LOW-DENSITY PARITY-CHECK CODESR. Urbanke	231
IRREGULAR TURBOCOE B.J. Frey and D.J.C	ES	241
ON QUASI-CYCLIC REPE R.M. Tanner	AT-ACCUMULATE CODES	249
THE SERIAL CONCATEN H.D. Pfister and P.	ATION OF RATE-1 CODES THROUGH UNIFORM RANDOM INTERLEAVERS H. Siegel	260
· ·	WORKS II S.P. Meyn and R. Srikant (University of Illinois at Urbana-Champaign) R. Srikant (University of Illinois at Urbana-Champaign)	
QUEUE LENGTH ASYMP A. Mandelbaum, W	TOTICS FOR MARKOVIAN SERVICE NETWORKS	270
EXACT ASYMPTOTICS FO W. Chang, D.G. Do	OR 1-LIMITED EXPONENTIAL POLLING MODELSwn, and R.D. Foley	280
INVARIANT RATE FUNC A.J. Ganesh, N. O'o	TIONS FOR DISCRETE TIME QUEUESConnell, and B. Prabhakar	288
LARGE DEVIATIONS AND FIRST DISCIPLINE A.L. Stolyar and K.	D OPTIMALITY OF THE LARGEST WEIGHTED DELAY Ramanan	297
ON ESTIMATING BUFFER MARKOV-MODULATED I I.Ch. Paschalidis an	R OVERFLOW PROBABILITIES UNDER INPUTSd S. Vassilaras	306
INDUCED BURSTINESS II TRAFFIC FLOWSS. Borst, O. Boxma	N GENERALIZED PROCESSOR SHARING QUEUES WITH LONG-TAILED	316
	ELECTING THE SHORTEST OF TWO, IMPROVED	326





DOCKET A L A R M

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

