

Table of Contents

<i>Chairman's Message</i>	1
Mission and 10-Point Action Plan	1
Faculty	1
Research Activities	5
Curriculum	6
Students	6
Student Placement	6
Program Review	7
Motorola Distinguished Lecture Series	7
Leave of Absence	7
<i>Department Facts</i>	9
Introduction	9
Degree Programs	10
Faculty and Staff	10
Students	10
Space	11
Laboratory and Computing Facilities	11
Undergraduate Curriculum Highlights	11
Research Activities	12
Advisory Board	14
ECE Department Contact Information	16
Center Contact Information	17
<i>Research Groups</i>	19
Overview	19
Solid-State Engineering	19
Photonic Systems and Technology	20
Networks, Communication, and Control	21
Signal Processing	22
Parallel and Distributed Computing	23
VLSI Design and CAD	24
<i>Interdisciplinary Research Centers</i>	27
Overview	27
Center for Dynamic Systems and Control	27
Motorola Center for Communications	27
Center for Optimization Technology	28
Center for Parallel and Distributed Computing	29

Center for Photonic Communications and Computing	29
Center for Quantum Devices	30
<i>Solid-State Engineering, 2000–2001</i>	31
Research Projects	31
Patent Issued	35
Journal Edited	35
Journal Papers	36
Symposium Sessions Organized / Chaired	38
Invited Talks and Seminars	38
Workshop Presentations	39
Symposium Papers / Proceedings	40
Ph.D. Dissertations	41
<i>Photonic Systems and Technology, 2000–2001</i>	43
Research Projects	43
Patents Issued	49
Book	49
Journal Edited	49
Journal Papers	49
Symposium Sessions Organized / Chaired	50
Invited Talks and Seminars	50
Symposium Papers / Presentations	51
Ph.D. Dissertations	53
<i>Networks, Communication, and Control, 2000–2001</i>	55
Research Projects	55
Professional Society Offices	57
Journals Edited	57
Journal Papers	57
Symposium Session Organized / Chaired	58
Invited Talks and Seminars	58
Symposium Papers / Presentations	58
Ph.D. Dissertation	59
<i>Signal Processing, 2000–2001</i>	61
Research Projects	61
Professional Society Activities	64
Journals Edited	65
Symposia and Symposia Sessions Organized or Chaired	65
Edited Conference Proceedings	65
Book Sections and Chapters	66

Journal Papers	66
Invited Talks and Seminars	66
Symposium Papers and Presentations	67
Ph.D. Dissertation	68
<i>Parallel and Distributed Computing, 2000–2001</i>	69
Research Projects	69
Professional Society Activities	75
Journals Edited	75
Symposia and Symposia Sessions Organized or Chaired	75
Patent Awarded	76
Book Sections and Chapters	76
Journal Papers	76
Invited Talks and Seminars	77
Symposium Papers and Presentations	78
Ph.D. Dissertations	79
<i>VLSI Design and CAD, 2000–2001</i>	81
Research Projects	81
Professional Society Activities	82
Journals Edited	83
Symposia and Symposia Sessions Organized or Chaired	83
Book	83
Book Sections and Chapters	83
Journal Papers	83
Invited Talks and Seminars	84
Symposium Papers and Proceedings	84
Ph.D. Dissertations	86

