

---

# Annual Report August 1998 - July 2000

---

**Complete Annual Report (Zipped PostScript, 5.1 MB)**

<b><u>Contents</u></b>	<b>iii</b>
<b><u>Preface</u></b>	<b>v</b>
<b><u>Curriculum Vitae</u></b>	<b>xiii</b>
<b><u>Obituary to Prof. Friedrich Schreiber</u></b>	<b>xvii</b>
<b>1    <u>Organization of the Chair</u></b>	<b>1</b>
1.1 <u>Personnel</u>	1
1.2 <u>Completions</u>	3
1.3 <u>Funds from Third Parties</u>	5
<b>2    <u>Cources, Laboratories, and Examinations</u></b>	<b>7</b>
2.1 <u>Courses and Laboratories</u>	7
2.2 <u>Lectures</u>	8
2.3 <u>Student Examinations</u>	10
<b>3    <u>Research Overview</u></b>	<b>13</b>
3.1 <u>Research Fields of ComNets</u>	13
3.2 <u>Overview of Current Activities</u>	15
3.3 <u>Research Supprting Organizations</u>	19
<b>4    <u>Current Research Topics</u></b>	<b>21</b>
4.1 <u>Cellular Radio Networks</u>	21
4.2 <u>Personal Communications</u>	46
4.3 <u>Dedicated Short-Range Communications</u>	60
4.4 <u>Network Design</u>	71
4.5 <u>Satellite Communications</u>	75
4.6 <u>Wireless ATM</u>	93
4.7 <u>Space Devision Multiple Access for Wireless Packet Networks</u>	107
4.8 <u>Wireless LAN</u>	116
4.9 <u>Ad-Hoc Networking</u>	151
4.10 <u>Broadband Fixed Wireless Access Networks</u>	164
4.11 <u>Powerline Communications</u>	178
4.12 <u>Infrared Communications</u>	184
4.13 <u>Trunked Mobile Radio</u>	187
4.14 <u>Spectrum Compatibility and Coexistence</u>	199
4.15 <u>Stochastic Simulation</u>	210
4.16 <u>Tools, Projects, and Info Systems</u>	216
<b>5    <u>Conferences, Seminars, and Committees</u></b>	<b>235</b>
5.1 <u>Conferences and Seminars</u>	235

contents

5.2	<u>National and International Committees</u>	238
5.3	<u>Reviewer and Editor Activities</u>	238
5.4	<u>Scientific Co-operations</u>	239
5.5	<u>Academic Committees</u>	239
<b>6</b>	<b><u>Publications</u></b>	<b>241</b>
6.1	<u>PH.D. Theses</u>	241
6.2	<u>Diploma Theses</u>	241
6.3	<u>Student Project Theses</u>	252
6.4	<u>Publications August 1998 - May 2000</u>	257
	<b><u>List of Figures</u></b>	<b>267</b>
	<b><u>List of Tables</u></b>	<b>273</b>
	<b><u>Bibliography</u></b>	<b>275</b>
	<b><u>Order Information</u></b>	<b>291</b>