FLORIDA ATLANTIC UNIVERSITY
Department of Computer & Electrical Engineering and Computer Science

ANNUAL FACULTY EVALUATION 2010-11
ACADEMIC/RESEARCH PLAN FOR 2011-12

Name and Rank:  Xin Wang, Associate Professor  Date:  March 31, 2011

Department and College:  Computer & Electrical Engineering and Computer Science
College of Engineering and Computer Science

A.  Teaching

1.  Please list all the courses taught during each semester and include results of the course evaluations.

<table>
<thead>
<tr>
<th>COURSES TAUGHT</th>
<th>Number of students responded</th>
<th>Percent responded</th>
<th>Overall rating of the Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>(In new forms: Quality of Instruction (#20) and Rating of the instructor (#21))</td>
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<tr>
<td>Summer 2010 courses</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>EEL3111 Circuits 1</td>
<td>23</td>
<td>71.9</td>
<td>2.8/2.7</td>
</tr>
<tr>
<td>Fall 2010 courses</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>EEL5500 Digital Comm. Systems</td>
<td>2</td>
<td>66.7</td>
<td>1.0/1.0</td>
</tr>
<tr>
<td>EEL4510 Intro to Digital Signal Proces</td>
<td>15</td>
<td>65.2</td>
<td>1.9/1.9</td>
</tr>
<tr>
<td>Spring 2011 courses</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>EEL6935 Comm. Network Optimization</td>
<td></td>
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<tr>
<td>EEL4512 Communication Systems</td>
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</tbody>
</table>

Please, include copies of “Student Perception of Teaching” summary forms for each class.
2. Doctoral and Master's Degree Committees

a) Number of doctoral committees chaired to completion:  _1_
   List student names: ___Di Wang___________________________

b) Number of doctoral committees currently chaired:  _1_
   List student names: ___Zhaoquan Li_________________________

c) Participation in doctoral committees:  ____7___

d) Number of master's degree committees chaired to completion:  _0_
   List student names: _____________________________

e) Number of Master students currently supervised:  _0_
   List student names: _____________________________

f) Participation in master's degree committees:  ____0___

3. Peer Evaluation

Include the Peer-evaluation Report (if available)

B. Research and Other Creative Activities (from May 1, 2010 – May 1, 2011)

1. List all publications during the last calendar year:
Classify papers as follows: (a) Books, (b) Journal papers (published), (c) Conference
   papers (published), (d) Other publications (published), (e) Submitted papers, pending

   Journal papers (published or in press)
   1. N. Gao and X. Wang*, “Optimal Subcarrier-Chunk Scheduling for Wireless OFDMA
      Systems,” IEEE Transactions on Wireless Communications, accepted for publication,
      Apr. 2011.
   3. X. Wang*, “Joint Sensing-Channel Selection and Power Control for Cognitive Radios,”
      Networks over Fading Channels,” IEEE Transactions on Wireless Communications, vol.
      Allocation in Wireless Sensor Networks over Fading TDMA Channels,” IEEE Journal

Conference papers (published)

Submitted papers

2. List all research grants during the last academic year:
Classify research grants as (a) received grants, (b) submitted, but pending, (c) submitted but rejected. Indicate the title of the grant, type of the grant (Research, Equipment, or Service) your role (PI, co-PI, or Investigator), the amount, time period, and grantor.
Current Grants:

Submitted but Pending Grant:

Submitted but Rejected Grants:

3. List participation in meetings of professional societies, special seminars, or other professional activities:
- Treasurer, the IEEE Palm Beach section.
- Invited panelist, National Science Foundation (NSF) 2009.
- Reviewer: various conferences including GLOBECOM, ISIT, ICC, ICASSP, WCNC, VTC, EUSICOP, MASS, ICCS, CrownCom, etc.

4. List other items of significance such as awards, prizes, and special recognition by professional community, etc.:
5. Student advising activities

- Undergraduate student advising:
  - Kasra Vakilinia, supported by NSF REU supplement.
  - Benny Pazhayattil, supported by NSF REU supplement.
  - Eugene Marlon Peters, supported by NSF REU supplement.

C. Service

1. List membership and chairmanship on all committees, indicating the time spent in each during last year:

- Member, Department Research Committee, 4 committed hours.
- Member, Department Undergraduate EE Program Committee, 4 committed hours.

2. List other service activities

D. Other University Duties (where applicable):

1. Describe duties:

2. Evaluation by appropriate official:

Include your latest resume

ACADEMIC/RESEARCH PLAN FOR 2011-12

Present your academic plan:

(1) Plan to develop and offer new courses: title, semester, U or G
(2) Plan to develop online course: title, time schedule

(3) Other creative activities relating to academics

Present your detailed research plan including detailed information on:

(1) Funded projects and potential buy-outs

(2) Ph.D. and Master students to be supervised

(3) Potential publications (journal, conference, etc.)

(4) Proposals to be submitted (Tentative titles, Tentative amount, Agency/Industry, Your role (PI, Co-PI, etc.))

1. Plan for sponsored research
   • Continue efforts on the funded NSF project “NEDG: A Universal Approach to Channel-Adaptive Resource Allocation and Scheduling for Wireless OFDM Networks”, and prepare the final report.

2. Plan for student supervising
   • Advising the PhD students Di Wang to completion.
   • Advising the PhD student Zhaoquan Li who has passed qualified exam in Summer 2010.
   • Advising an undergraduate student Eugene Peters supported by NSF REU supplement. Eugene Peters will continue as an MS student in Fall 2011.
   • Recruiting and advising another MS or a PhD student for the NSF project.

3. Plan for publications
   • Submit a journal paper on “TCP Congestion Control over Internet with Wireless Links”, co-authored with the PhD student Zhaoquan Li.
   • Submit a journal paper on “Utility Maximization over Ergodic Capacity Region of Fading”, co-authored with the PhD student Zhaoquan Li.
   • Submit a journal paper on “Joint TCP Congestion Control and CSMA Scheduling without Message Passing”, co-authored with the PhD student Zhaoquan Li.
   • Potential revisions on the three already submitted journal papers.

4. Plan for grant proposal submissions
   • Potentially submit a proposal to NSF CISE CRI program in Aug. 2011.
   • Potentially submit a proposal white paper on “Distributed Congestion Control and Link Scheduling for Tactical Mobile Ad Hoc Networks” to the ONR in Oct. 2011.