**Curriculum vitae**

***Associate Prof*.**

Nasser Abdelwahab Said Hamad

Nablus Palestine

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| objective |
|  | Pursuing an associate professor position in the fields of telecommunications and mobile communications technologies relying on proven record in the field which adds value to interested employers.The requirement for a highly qualified engineers and scientists have strong background in wireless mobile telecommunication field becomes a vital requirement in the market.. Teaching, Consultation/evaluation of different technologies relating to digital communication systems, information theory, Digital Signal Processing, and cellualr mobile systems.Reducing the huge margin between the theoritical engineering background and the industry should be considered while preparing an engineering program in acquiring accreditation from the national authority. In our field, however, ABET and IEEE standards for teaching electrical and electronic engineering and related fields should also be taken into consideration to achieve excellency in teaching and development of creative thinking. In addition to produce engineers of cultural knowledge as well with loyalty to their country.In the last two years, and in my capacity as a chairperson of the EECE department in AURAK, I successfully, have got the ABET accreditation of the Eklectronics and Communications Engineering Program. I worked with my collegeous in Computer Engineer to have the two ABET accredited programs in Aug. 2016.It is worthy to mention that I was the keyperson of setting up the telecommunication Engineering department at the faculty of Eng. Arab American University-Jenin (AAUJ). Such an activity, provide me with an excellent experience in handling engineering programs. I had two years experience of working as a Vice President for Academic Affairs of AAUJ. |
| Experience |
|  | 1. **Aug., 2020-up to date, Jenin, Palestine**

Arab American University Palestine (AAUP)Faculty of Engineering and Information Twchnology, Telecommunications Engineering Dept., *Associate Prof.*1. **Aug., 2016-Aug., 2020, Ras Al Khaimah, United Arab Emirates**

American University of Ras Al Khaimah (AURAK)School of Engineering, electrical, electronics and communication engineering department, *Associate Professor*1. **Sep. 2014-Aug. 2016, Ras Al Khaimah, United Arab Emirates**

American University of Ras Al Khaimah (AURAK)School of Engineering, electrical, electronics and communication engineering department, *ChairPerson* and *Associate Professor*1. **Aug., 2013-Aug. 2014, Ras Al Khaimah, United Arab Emirates**

American University of Ras Al Khaimah (AURAK)School of Engineering, electrical, electronics and communication engineering department, *Associate Professor*1. Teaching activities (Taught Courses):
	* Wireless and Cellular Mobile System-ECEN 473
	* Information theory and coding ECEN 499
	* Digital communication ECEN 464
	* Communication Theory ECEN 460
	* Signals and Systems ECEN 201
	* Undergraduate research ENGR 399
	* Supervision of Graduate Students Projects (2-3 projects per year), ECEN 492 and ECEN 493
2. Academic Activities:
	* TPC member of the 2017 International Conference on Electrical and Computing Technologies and Applications (ICECTA), Ras Al Khaimah, 21-23 Nov., 2017.
	* TPC member of the 2nd International Conference on Wireless Communication Systems and Networks, [*MIC-Wireless 2015*](http://mosharaka.net/?Cat=Conferences&Pag=ConfHome&Cid=59), Barcelona, Spain, 7-9 August 2015.
	* ABET Workshop: Fundamentals of Program Assessment, World Engineering Education Forum WEEF 2014, Dubai, Nov 2014.
	* Workshop, SACSCOC Program Assessment Workshop, AURAK, UAE 2014.
	* Workshop, LabView, ELVISS and MultiSim Training, AURAK, UAE 2014
	* Paper reviwer for Wireless Communication Systems and Networks (WCSN), [*MIC-Telecom 2014*](http://mosharaka.net/?Cat=Conferences&Pag=ConfHome&Cid=54), Istanbul, Turkey, 19-21 December 2014.
	* Paper Reviwer for Wireless Communication Systems and Networks (WCSN), [*MIC-Telecom 2013*](http://mosharaka.net/?Cat=Conferences&Pag=ConfHome&Cid=48), Barcelona, Spain, 20-22 December 2013.
	* DIPECC 2013 Review Committee member, The Society of Digital Information and Wireless Communications (SDIWC).
3. Committees Memberships:
	* Member of the Sientific research committee (2013-2014), Graduate School and Scientific Research, AURAK.
	* Member of the logistic and organization committee of the ICCVIP conference, 2014
	* Marketing and Public Relations Committee Membership, (2015-2018)
	* Quality Assurance & Institutional Effectiveness Comm. Membership, (2015-2018)
	* ABET Committee Member, School of Engineering
	* Senior Design Project Committee Member, School of Engineering.
4. Administrative Activities:
	* Chairperson of Electrical, Electronics and Communications Engineering (EECE) Departemnt. (2014-present).
5. **Sep., 2010-Sep. 2012. Jenin-Palestine**

The Arab American University-Jenin (AAUJ)*Vice President for Academic Affairs.* 1. **Jan., 2010-Jul. 2010. Nablus-Palestine**

Al-Najah National University, Visiting Associate Prof.* Teaching Electrical Engineering Students and Communication Engineering Students
* Taught courses:
	+ Communication 1
	+ Digital Circuit Design
1. **Mar., 2006-Aug. 2013. Ramallah-Palestine**

PALTEL Group (Palestine telecomm. & Jawwal company), Technical Consultant.* Representing PALTEL group in national/international conferences, workshops, seminars, etc…
* Preparing a field research papers, field studies, and reports.
1. **Sep., 2005-Feb., 2007. Jenin-Palestine**

Hassib Subbagh IT Center of Excellence (HSITCE)-AAUJ, Director.* Setting up the center, opened in November, 2005
* Establishing and building a strategic business plan
* Perform a business agreement with private sectors
* Managing of the main units in the center, IT related training courses, IT related business incubation, business gateway, Research and Development
* Managing the computer center at the university
1. **Jun., 2009-Sep. 2010. Jenin-Palestine**

The Arab American University-Jenin (AAUJ)Faculty of Engineering and Information Technology, (TCE) dept.*Associate Prof.*1. **Sep., 2003–Jun., 2009. Jenin-Palestine**

The ArabAmericanUniversity (AAUJ) Faculty of Engineering and Information Technology, (TCE) dept. Assistant Prof.1. Teaching activities (Taught Courses):
	* Wireless and Cellular Mobile System-**Master Course** in Alquds University-Abu Dies (Fall 2007)
	* Wireless and Cellular Mobile systems
	* Information theory and coding
	* Digital communication
	* Random variables and stochastic processes
	* Digital Signal Processing
	* Signals and Systems, Electric Circuit, Digital Logic Design
	* Supervision of Graduate Students Projects (2-3 projects per year)
	* Supervision of Master Students.
2. Academic Activities:
	* Cross Border Higher Education Seminar, Bologna process, attended in 22-24th of April, 2013.
	* Committee member of the higher committee for equivalence of the non-Palestinian certificate at the ministry of higher education. (2012-2013)
	* Committee chair of the higher comittee for equivalence of the enginerring and applied sciences non-Palestinian certifictes. (2012-2013)
	* Jury committee member of a PhD student at Bordeaux University-France, titled “Contributions on Receiver design and channel estimation for Multi-carrier DS-CDMA mobile systems”, Jun. 13-16, 2007, Bordeaux, France
	* Jury committee member of a Master degree at Alquds University (several times).
	* Business Projects Evaluator for the Palestinian National Authority-Ministry of Education & Higher Education, Accreditation and Quality Assurance Commission (several times)
	* Program Evaluator for the Palestinian National Authority-Ministry of Education & Higher Education, IT-Engineering Programs Accreditation (several times)
	* Telecommunication Consultant at the Palestinian National Authority-Ministry of Telecom. & Information Technology, Working on the proposed establishing committee to organize the Telecom. and IT sector in Palestine (2006).
	* Member of the Palestinian Education Initiative (PEI), technology axis member. <http://www.pei.gov.ps>.
3. Committees Memberships:
	* Faculty Accreditation Committee member to obtain the Engineering accreditation from the Palestinian National Authority-Ministry of Telecom. & Information Technology
	* Editorial committee member of a 2nd Palestinian International Conference on Computer and Information Technology Palestine Polytechnic University (PICCIT), September 1-3 2007.
	* Reviwer Committee member of Referred Annual Journal, Published By Deanship of Academic Research. HebronUniversity, Palestine.
	* AAUJUniversity Scientific Research Committee Member Sept. 2008-2009
	* AAUJUniversityAnnual Report Committee Member. Sept. 2008-2009
	* AAUJUniversity Counsle Member. 2008-2009
	* AAUJ Post Graduate Studies Committee member, Sep. 2012-present.
4. Administrative Activities:
	* Chairperson of Computer Information Technology (CIT) department for one academic year (2003-2004).
	* Chairperson of telecommunication technology (TCT) department for one academic year (2004-2005)
	* Faculty of IT Deans Assistant for one year (2004-2005)
	* Graduate Students Internship Coordinator, Faculty of IT-AAUJ, 2004-2005
	* Chaiperson of Telecommunication Engineering (TCE) department from Sep. 2007 – to 2009
5. **Apr., 2001 – Sep., 2003. Tokyo, Japan**

Washida International Patent Attorney (The company main field of business is related to 3G mobile system by Matsushita (Panasonic, YRB) communication group.)CDMA Telecommunications expert (Full time)* Analyzing of the third generation partnership project (3GPP) Technical Specifications (TS) for the Cellular Mobile Communication System Technology
* Filing patents of new inventions by revising the drafts of the received inventions keywords in preparation of the patenting file
* Prosecution of and follow up on the patents applications filed in the patent offices of the US., Europe, Canada, China and Korea.
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|  | 1. **Mar., 1998 – Mar., 2001. Tokyo, Japan**

Washida International Patent Attorney. *CDMA Telecommunications Consultant (Part time)** Tutoring the basic concepts of and creating awareness about the CDMA technology of the Cellular Mobile Communication System for the employees in Washida patent attorney
* Preparation of educational tutorials and tutoring about digital communications explaining the major topics in the field.
1. **Apr., 1999 – Oct., 2000. Tokyo, Japan**

University of Electro-Communications (UEC)Electronics Engineering Department Hashimoto Information Theory Laboratory. *Part time Research Tutoring for Masters Students in Hashimoto Lab*1. **Sep., 1993 – Apr., 1995. Nablus-Palestine**

Halley Computer and Electronics Engineering Co. *Electronics Engineer** Installing and Programming of (PBX) Telephone switching network,
* Maintenance of Ethernet computer networks,
* Installing Burglary alarm and fire fighting systems,
* Maintenance of Computers and FAX machines.
1. **Jan., 1991 – Oct., 1991. Amman-Jordan**

JordanTelephone Center. *Electronics Engineer (Part time job)*Installing and programming of PBX Telephone network switching. |
| Education |
|  | 1998-2001 Tokyo, JapanUniversity of Electro-Communications (UEC),Electronics Engineering Department Hashimoto Information Theory Laboratory, * PhD in User Capacity of a CDMA Mobile Telecommunication System
* **Doctor of Engineering.**

1996-1998 Tokyo, JapanUniversity of Electro-Communications (UEC),Electronics Engineering Department Hashimoto Information Theory Laboratory, * MSc in User Capacity of a CDMA Mobile Telecommunication System
* **Master of Engineering.**

1985-1990 Alexandria, EgyptArabAcademy for Science and Technology (AAST), Electronics and Computer Department * B.Eng. in Spread Spectrum and Multiple Access Networks
* **Bachelor of Engineering.**

1984-1985 Nablus-PalestineQadriTuqanSecondary SchoolSecondary General Certificate (scientific Stream) |

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| **SKILLS** |
|  | 1. **RESEARCH SKILLS**
* ABET and CAA accreditation Process.
* Supervising, reviewing , writing technical papers.
* Analysis and performance evaluation of telecommunications CDMA systemsand WiMax Technology following the FCC rules and Radio Regulations.
* Optimization techniques, linear and nonlinear programming methods
* Statistical Process and Quality Control (SPQC), for Engineering
* Computer simulation for packets generation and wireless networks
* Multi-user detection strategies.
* Infromation Theory, Network Security and Steganography.

**Languages**Arabic (native), English (fluent), Japanese (basics)**Software Skills**SOFTWARE BACKAGES: MATLAB, PSPICE, PROGRAMMING LANGUAGES: C, Fortran, Assembly, LatexOPERATING SYSTEMS: MS-DOS, UNIX |

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| **GRANTS** |
|  | 1. Scholarship from the “Arab League, Arab Fund for Technical Support of African Students” for engineering studies (1985-1990, Egypt)
2. Scholarship from the “Ministry of Education (Monbusho)” for postgraduate studies (1995-2001, Japan)
 |
| AFFILIATIONS |
|  | 1. 2010-2013

Member, the Institute of Electrical and Electronics Engineers (IEEE)1. 1999-2003

Student Member, the Institute of Electrical and Electronics Engineers (IEEE)1. 1999-2003

Student Member, IEEE Communications Society 1. 1990-up to present

Member, the Jordanian Engineers Association (JEA)1. March 2008-to date.

Academy Fellow Member, PalestineAcademy for Science and Technology,PALAST |
| REFERENCES |
|  | 1. Prof. Takeshi Hashimoto, Hashimoto Information Theory Laboratory, Department of Electronics Engineering, University of Electro-Communications, Chofu-shi, Chofugaoka, Tokyo, 182-8585, Japan

E-mail: [hasimoto@itl.ee.uec.ac.jp](file:///C%3A%5CUsers%5CAdministrator%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CTemporary%20Internet%20Files%5CContent.Outlook%5CSNUWR0ZW%5Chasimoto%40itl.ee.uec.ac.jp)1. Prof. Boualem Boashash, Center for Signal Processing Research, School of Electrical and Electronic Systems Engineering, QueenslandUniversity of Technology, 2 George Street, GPO Box 2434, Brisbane QLD 4001, Australia.

E-mail: [b.boashash@qut.edu.au](file:///C%3A%5CUsers%5CAdministrator%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CTemporary%20Internet%20Files%5CContent.Outlook%5CSNUWR0ZW%5Cb.boashash%40qut.edu.au)1. Prof. Elkhamy Said, Department of Electrical and Electronics Engineering, Faculty of Engineering, AlexandriaUniversity, Alexandria, Egypt.

 E-mail: elkhamy@alex.eun.eg1. Associ. Prof. Adli Saleh, President of Arab American University-Jenin (AAUJ), 2006-2011

 E-mail: asaleh@aauj.edu |

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| PUBLICATIONS |
|  | ***Journal Papers:***1. **NASSER HAMAD**, Maen Takruri, and Mahdi Barhoush, “Wavelet based multicarrier CDMA system”, *International Journal of Electrical and Computer Engineering (IJECE)*, Vol. 9, No. 4, August 2019, pp. 3051~3059. **(Scoupus\_Q2)**

<http://ijece.iaescore.com/index.php/IJECE/article/view/14026/13130> 1. M. Takruri, S. Ismail, M. Awad, [M. Al-Hattab](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Mohammad%20Al-Hattab.QT.&newsearch=true) and **N. Hamad**   “A Comparative Study of Energy Consumption Required for Localization in Wireless Sensor Networks,” *International Journal on Communications Antenna and Propagation (IRECAP)*,  vol. 9, no. 4, , p301-310, Aug 2019. **(Scoupus\_Q2)**

[https://www.praiseworthyprize.org/jsm/index.php?journal=irecap&page=article&op=view&path[]=23610](https://www.praiseworthyprize.org/jsm/index.php?journal=irecap&page=article&op=view&path%5b%5d=23610) 1. **NASSER A. HAMAD,** “A New Proposal of Handover Algorithm between Cellular Mobile and Mobile WiMAX Systems”, *International Journal of Applied Engineering Research (IJAER)*, Vol. 11, No. 24 (2016), pp 11894-11900. **SCOPUS(2010-2017)**

<https://aurak.ac.ae/publications/A-New-Proposal-of-Handover-Algorithm-between-Cellular-Mobile-and-Mobile-WiMAX-Systems.pdf> 1. Hussain A. Attia\*, Beza Negash Getu, and **Nasser A. Hamad**, “A Stable DC Power Supply for Photovoltaic Systems”, *Int. J. of Thermal & Environmental Engineering,* Volume 11, No. 1 (2016) 00-00

<https://aurak.ac.ae/publications/A-Stable-DC-Power-Supply-for-Photovoltaic-Systems.pdf> 1. **Nasser A. Hamad**, “OFDM Performance Measurements in WiMax Physical Layer Network”, *International Journal of Applied Engineering Research (IJAER),* Vol. 10, No. 24 (2015), pp 44393-44398. **SCOPUS(2010-2017)**

<https://www.ripublication.com/Volume/ijaerv10n24.htm> <https://aurak.ac.ae/publications/OFDM-Performance-Measurements-in-WiMax-Physical-Layer-Network.pdf> 1. **Nasser A. Hamad**, Beza Negash Getu, and Hussain A. Attia, “Electromagnetic Fields Measurements of a Cellular Mobile Systems”, *International Journal of Applied Engineering Research (IJAER)*, Vol. 10 No. 10, 2015, p.p. 26307-26320. **SCOPUS(2010-2017).**

<https://www.researchgate.net/publication/286945361_Electromagnetic_fields_measurements_of_a_cellular_mobile_systems>1. Beza N. Getu\*, **nasser a. hamad**, hussain A. Attia, “Remote Controlling of an Agricultural Pump System based on the Dual Tone Multi-Frequency (DTMF) Technique”, *Journal of Engineering Science and Technology*, Oct. 2015, Vol. 10, Issue 10. **(Scoupus\_Q2)**

<https://www.researchgate.net/publication/285482989_Remote_controlling_of_an_agricultural_pump_system_based_on_the_dual_tone_multi-frequency_DTMF_technique> 1. **Nasser A. Hamad** “Hiding Text Information in a Digital Image Based on Entropy Function”, *The International Arab Journal of Information Technology (IAJIT)*, vol.7*,* No*.* 2*, April* 2010. **(Scoupus\_Q2)**

[https://ccis2k.org/iajit/PDF/vol.7,no.2/700.pdf](https://ccis2k.org/iajit/PDF/vol.7%2Cno.2/700.pdf) 1. **H. Nasser** and T. Hashimoto “Reverse link capacity of a wireless multimedia CDMA system with power and processing gain control in conjunction with CCI canceller”, *IEICE Trans. Fundamentals,* vol. E 84-A, pp. 347-355, Jan., 2001. **(ISI)** <https://search.ieice.org/bin/summary.php?id=e84a_1_347&category=A&year=2001&lang=E&abst>=
2. **H. Nasser** and T. Hashimoto, “Reverse link capacity of a wireless multimedia CDMA system with transmission power control and CCI cancellers”, *IEICE Trans. Fundamentals*, vol. E 82-A, pp. 2706-2719, Dec., 1999. **(ISI)** <https://www.researchgate.net/publication/2824457_Reverse_Link_Capacity_of_a_Wireless_Multimedia_CDMA_System_with_Transmission_Power_Control_and_CCI_Canceller>

***Conference Papers:***1. Anwar Alshamsi, Younas Anwar, Maryam Almulla, Mouza Aldohoori, **Nasser Hamad**, Mohammed Awad, “Monitoring Pollution: Applying IoT to Create a Smart Environment”, *2017 International Conference on Electrical and Computing Technologies and Applications (ICECTA),* Ras Al Khaimah, 21-23 Nov., 2017, UAE. **(IEEE)**

<https://ieeexplore.ieee.org/document/8251998> 1. Hussain A. Attia, Beza Negash Getu, **Nasser A. Hamad**, “A Stable DC Power Supply for Photovoltaic Systems”, *The Fourth International Conference on Energy, Water and Environmental Sciences (ICEWES 2015),* Ras Al Khaimah, Dec. 15-17, UAE.

<https://aurak.ac.ae/en/academics/office-of-research-community-service/scholarly-activities/> 1. Hussain Attia, Beza N. Getu, and **Nasser A. Hamad**, “Experimental Validation of DTMF Decoder Electronic Circuit to be used for Remote Controlling of an Agricultural Pump System”, *The International Conference on Electrical and Bio-medical Engineering, Clean Energy and Green Computing*. Islamic Azad University, IAU, UAE Branch, Dubai, January 28-30, 2015 Oct. 2015.

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.1019.8673&rep=rep1&type=pdf> 1. **Nasser Hamad** and Bashar Musa, “Improvement of Quality of Service for WiMax Physical Layer”, 2nd International Conference on Digital Signal Processing (MIC-SigProc 2014), Dubai, UAE: 3-5 October 2014.
2. LAITH Ibrahim, MAHMMOUD Mahajni, QASSEM Salameh, TAHANI Sbehat, and **NASSER Hamad,**“User Capacity Of a Multiuser Receiver In a CDMA System”, *2nd Palestinian International Conference on Computer and Information Technology* (*PICCIT*), Hebron, Palestine, 1-3 Dec., 2007.

<http://piccit.ppu.edu/> 1. Nidhal Odeh, Sabira Khatun, Borhanuddin Mohd Ali, Alyani Ismail and **Nasser Hamad**, “Multi-Rate Joint CDMA and SDMA Multiuser Detection with Parallel Interference Cancellation”, *Arab Conference on Information Technology* (ACIT’06), Jordan, 19-21 Dec., 2006.

[Microsoft Word - f146 (acit2k.org)](https://www.acit2k.org/ACIT2006/Proceeding/146.pdf)1. Nidhal ODEH, Sabira KHATUN1, **Nasser HAMAD**, Borhanuddin ALI, Ady KITTANA and Ayman HAJ-YOUSEF, “Performance Evaluation of a CDMA Multiuser Detection with Parallel Interference Cancellation”, International Wireless and Telecommunications Symposium (IWTS’06), Kuala Lumpur, Malaysia, 15-17, 2006. **(IEEE)**

<https://www.researchgate.net/publication/270453232_Performance_Evaluation_of_a_CDMA_Multiuser_Detection_with_Paralell_Interference_Cancellation_Authors_Nidhal_ACCEPTANCE_OF_PAPER_FOR_THE_IW> 1. **H. Nasser** and T. Hashimoto, “User capacity of a wireless multi-Rate CDMA systems”, in Proc. of SITA’01, Vol. II, Kobe, Hyogo, Japan, Dec. 4-7 2001.

<https://www.cs.auckland.ac.nz/research/conferences/isita2008/index.php>1. **H. Nasser** and T. Hashimoto, “Reverse link capacity of wireless multimedia CDMA system”, Proceedings of the 11th IEEE International symposium on Personal, Indoor and Mobile Radio Communication (PIMRC 2000), England, Sep. 2000. **(IEEE)**

<https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=881523> 1. **H. Nasser** and T. Hashimoto, “Reverse link capacity of wireless multimedia CDMA system”, in Proc. Of SITA ،99, Vol. III, Niigata, Japan, Nov. 30 – Dec. 3,1999.<https://www.cs.auckland.ac.nz/research/conferences/isita2008/index.php>
2. **H. Nasser** and T. Hashimoto, “Reverse link capacity of a wireless multimedia CDMA with power control and CCI cancellers”, in Proc. Of SITA ’98, Vol. II, Gifu, Japan, Dec. 2-5 1998.<https://www.cs.auckland.ac.nz/research/conferences/isita2008/index.php>
3. **H. Nasser** and T. Hashimoto, “On the capacity of a wireless multi-Media CDMA system based on transmission power control”, in Proc. Of SITA’97, Vol. II, Matsuyama, Japan, Dec. 2-5 1997.

<http://www.itsoc.org/publications/nltr/97_jun/14sit.html>***Thesis, Books and Others:***1. “An Overview of Multimedia and its Professional Applications”, Multimedia customized Text Book Supervisor, Producing a first version of a PEI customized text book in Multimedia through HSITC.
2. Reviewig and Justification of Data Transmission Text book taught at Alquds Open University (Arabic Language).
3. **H. Nasser**, “Study on System Capacity of Wireless Multimedia CDMA System with CCI Canceller under Power and Processing Gain Control”, *Ph.D. Dissertation, University of Electro-Communications*, March 2001.<http://www.uec.ac.jp/eng/index.html>
4. **H. Nasser**, “On the Capacity of a Wireless Multimedia CDMA”, *Masters Thesis, University of Electro-Communications*, Feb. 1998.<http://www.uec.ac.jp/eng/index.html>
5. **H. Nasser**and T. Hashimoto, “On the Capacity of a Wireless Multimedia CDMA”, IEICE Technical Report, vol.97, no.610, March 1998.<http://www.ieice.org/eng/index.html>
6. **H. Nasser**, “Spread Spectrum Multiple Access Techniques”, B.Eng. Graduation Project, ArabAcademy for Science and Technology (AAST), Jun. 1990. <http://www.aast.edu/>
 |