



**PLENIPOTENTIARY
CONFERENCE (PP-02)**

**Addendum 18 to
Document 5-E
16 September 2002
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MARRAKESH, 23 SEPTEMBER - 18 OCTOBER 2002

PLENARY MEETING

Note by the Secretary-General

CANDIDACY FOR THE POST OF MEMBER OF THE RADIO REGULATIONS BOARD

Further to the information contained in Document 3, I have pleasure in transmitting to the conference, in annex, the following candidacy for the post of member of the Radio Regulations Board:

Mr Mostafa Abdel-Kader BAHIE ELDIN (Arab Republic of Egypt).

Yoshio UTSUMI
Secretary-General

Annex: 1



*Permanent Mission of Egypt
to the United Nations
Geneva*

CHAN - 2002 - 320 .

The Permanent Mission of the Arab Republic of Egypt to the United Nations office and other International Organizations in Geneva presents its compliments to the Secretariat of the International Telecommunication Union (ITU) and with reference to the elections of the Radio Regulation Board that will take place during the ITU Plenipotentiary Conference to be held in Marakesh during the period 23 September to 18 October, 2002.

The Permanent Mission of the Arab Republic of Egypt has the honour to inform that the Government of Egypt has decided to officially present the candidature of Dr. Mostafa Abdel-Kader Bahie-Eldin, Frequency Management Director at the Egyptian Telecom Regulatory Authority for membership of the Radio Regulation Board of ITU (enclosed is the C.V of Dr. Bahie-Eldin). The Permanent Mission of Egypt would appreciate it if the ITU Secretariat would inform all member States of ITU of its candidature.

The Permanent Mission of the Arab Republic of Egypt avails itself of this opportunity to renew to the Secretariat of the International Telecommunication Union (ITU) the assurances of its highest consideration.

re

Geneva, 16 September, 2002



**International Telecommunication Union
Place des Nations
CH-1211 Geneva 20
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Roushdy/itu-Bahieeldin

CURRICULUM VITA



PERSONAL INFORMATION

Name : **MOSTAFA ABDEL-KADER BAHIE-ELDIN**
Affiliation : Frequency management director, TRA-Egypt
Address : 27 Mohie-Eldin Abou-Elazz st. Dokki, Cairo
Date of birth : 16/12/1951
Marital status : Married, has two daughters
Nationality : Egyptian

PROFESSIONAL BACKGROUND

B.Sc. of Electrical Engineering with honor grade, at June 1974.

M.Sc. of Electrical Engineering from MTC, at August 1980.

Ph. D. of Electrical Engineering from George Washington University, USA , at April 1985.

RESPONSIBILITIES

- 1- Director of frequency management department, TRA-Egypt.
- 2- Member of the frequency consulting committee of TRA-Egypt.
- 3- Chairman-deputy of the permanent Arab-working team for frequency management.
- 4- Participant of national and regional preparatory meeting for ITU-R, and ITU-D.

PROFESSIONAL EXPERIENCE

1985- 2001 academic instructor at different Egyptian universities.
1990 -1998 advisor of technical evaluation for communication systems.
1991- 2001 advisor of technical evaluation for integrated IT systems, and LAN and WAN.
2001- frequency management director at Telecomm. Regulatory Authority-Egypt.

List of Publications:

- 1- M. Abdel-Samie, **M. A. Bahie-Eldin**, and A. Elosmany, "Improvements of anti-jam performance of spread spectrum systems," Proceedings of National Telecommunication Conference, NTC, C7.2.1-C7.2.5, Dece. 1981.
- 2- **M. A. Bahie-Eldin**, and A. Elosmany, "Interference effects of direct sequence-spread spectrum (DS-SS) signal on voice AM and FM communication systems," Proceedings of Military Communication Conference, MILCOM 82, pp. 8.2.1-8.2.5 Oct. 1982.
- 3- M. Abdel-Samie, **M. A. Bahie-Eldin**, and A. Elosmany, "Improvements of anti-jam performance of spread spectrum systems," IEEE Trans. on Com. Vol.31, No.6, pp. 803-808, June 1983.
- 4- R. Lang, **M. Bahie-Eldin**, and R. Pickholtz, "The effects of weight-fluctuations on the performance of null-steering adaptive arrays," Proceedings of Military Communication Conference, MILCOM 84, Oct. 1984.
- 5- R. Lang, **M. A. Bahie-Eldin**, and R. Pickholtz "Stochastic effects in adaptive null-steering antenna array performance," Proceedings of IEEE Journal on selected area in com., Vol.SAC-3, No.-5, pp. 767-778 Sept. 1985.
- 6- **M. A. Bahie-Eldin**, R. Lang, and R. Pickholtz, "New analysis of the adaptive array performance in the presence of multiple interfering sources," Proceedings of Military Communication Conference, MILCOM 85, pp. 28.3.1-28.3.6 Oct. 1985.
- 7- **M. A. Bahie-Eldin**, and A. Elosmany, "Interference effects of frequency-hopping spread spectrum (FH-SS) signal on voice AM and FM communication systems," Proceedings of the 4th National Radio Science Conference, NRSC, pp. C2-1, C2-6, Nov. 1986, Cairo, Egypt.
- 8- B. Hawas, **M. A. Bahie-Eldin**, A. Elmoghazy, and M. Matar, "Code conversion: A state of the art survey," Proceedings of the 4th National Radio Science Conference, NRSC, pp. C3-1, C3-9 Nov. 1986, Cairo, Egypt.
- 9- **M. A. Bahie-Eldin**, and M. Eldemerdashy, "Bandwidth Optimization of the partial band noise jamming in FH/FSK systems," Symposium of defense technology, 1987.
- 10- **M. A. Bahie-Eldin**, and A. A. Mitkees, "Effects of the statistical weight fluctuations and mutual coupling on the directivity pattern of LMS array," Armed forces scientific research journal, Vol. XVII, No. 44, pp.55-58, Dace. 1988.
- 11- **M. A. Bahie-Eldin**, N. Elnadi, and M. Eldemerdashy, "Performance of frequency hopping spread spectrum system in simultaneous partial-band and repeat-back jamming," Proceedings of the 6th National Radio Science Conference, NRSC, pp. C22-1, C22-11, Feb. 1989, Cairo, Egypt.
- 12- **Bahie-Eldin**, E. Eweda, and I. Elnadi, "A modified partial band filter bank combiner for frequency hopping detection," Proceedings of the 6th National Radio Science Conference, pp. C22-1, C22-10, NRSC, Feb. 1989, Cairo, Egypt.
- 13- **Bahie-Eldin**, "Direct sequence-spread spectrum system behavior with sinusoidal envelope modulated interference," Proceedings of the 7th National Radio Science Conference, NRSC, pp. C13-1, C13-6, Feb. 1990, Cairo, Egypt.
- 14- **Bahie-Eldin**, R. Elawady, and L. F. Gerges, "Performance analysis of DS-MSK system in mobile radio communication", Proceedings of Military Communication Conference, MILCOM 91, pp. 39.4.1-39.4.4 Nov. 1991, VA., USA.

- 15- A. Bahie-Eldin**, A. F. Hassan, and G. Youssef, "Mutual coupling effects on the performance of super resolution adaptive arrays," Proceedings of the 9th National Radio Science Conference, NRSC, pp. B1.1-B1.8, Feb. 1992, Cairo, Egypt.
- 16- A. Bahie-Eldin**, S. Elkhamy, H. Elmotafy, and S. Sedky "Digital computer simulation of super resolution adaptive antenna arrays," Al-Azhar Engineering Third International Conference AEIC'93 Dece. 1993, Cairo, Egypt.
- 17- H.A Elmotafy, S. Elkhamy, **M. A. Bahie-Eldin**, and S. S. Rageh, "Nonlinear analysis of millimeter wave resistive frequency multipliers," Al-Azhar Engineering Third International Conference AEIC'93 Dece. 1993, Cairo, Egypt.
- 18- H.A. Elmotafy, S. S. Rageh, S. Elkhamy, and **M. A. Bahie-Eldin**, "The effect of diode parameters on the performance of the millimeter wave up converters," Proceedings of the 10th National Radio Science Conference, NRSC, Feb. 1993, Cairo, Egypt.
- 19- E. Mohamed, **M. A. Bahie-Eldin**, and S. T. Soliman, "Processing FSK/FH Signals with unknown code," Proceedings of the international conference on mathematical analysis and signal processing, Cairo University, Jan. 1994, Cairo, Egypt.
- 20- M. A. Bahie-Eldin**, "Comparative performance of different adaptive super resolution array algorithms", Proceedings of Military Communication Conference, MILCOM 94, pp. 26.4.1-26.4.5 Oct 1994, NJ. USA.
- 21- E. Mohamed, S. Geninna, **M. A. Bahie-Eldin**, and S. T. Soliman, "Digital computer simulation for blind de hopping of FSK/FH signals," Proceedings of the 12th National Radio Science Conference, NRSC, pp. C41.1- C41.8, March 1995, Alexandria, Egypt.
- 22- M. A. Bahie-Eldin**, "Adaptive array super resolution: control-loop noise," Proceedings of 6th ASAT, pp. AV.5.287-AV.5.301, MTC May 1995, Cairo, Egypt.
- 23- M. A. Bahie-Eldin**, "Signal characterization effect on adaptive super resolution algorithms", Proceedings of Military Communication Conference, MILCOM 96, pp. 877-881, Oct 1996, USA.
- 24- M. Mokhtar, **M. Bahie-Eldin**, and M. Kassam, " Direction of arrival estimation techniques using uniform circular array" Proceedings of the 13th National Radio Science Conference, NRSC, pp. B2-.1-B2.8, March 1996, Cairo, Egypt.
- 25- R.M. El-Awady, **M.A. Bahie-Eldin**, R. Elzanfily, and L.F. Gergis, " MPSK Trellis Coded Modulation through nonlinear channels in additive Gaussian noise and Rayleigh fading" Proceeding of Second International Engineering Conference – Mansoura 1997, pp. 409-417.
- 26- R.M. El-Awady, **M.A. Bahie-Eldin**, R. Elzanfily, and L.F. Gergis, "Performance of Trellis Coded Modulation through Rayleigh fading and nonlinear Mobile Satellite Channels" Proceeding of Channels" Proceeding of Second International Engineering Conference – Mansoura 1997, pp. 419-428.
- 27- M. A. Bahie-Eldin**, and Alaa A. Omar, "Complexity measure of encryption keys used for securing computer networks", Proceedings of Annual computer security and application conference, ACSAC98, pp. 250-255 Nov. 1998, USA.
- 28- R. M. El-Awady, **M. A. Bahie-Eldin**, and L.F. Gergis, "Trellis Frequency and phase Modulation in Fading Mobile Satellite Channels" Proceeding of Second International Conference on Electrical Engineering M.T.C. November 1999.

- 29- **M. A. Bahie-Eldin**, Mohamed Sharrawy, Alaa Eldin Fahmy, and H. Y. Zorkta, "The modified-I/O DES block cipher" Proceedings of the 2 ICEENG CONFERENCE , MTC, 23-25 Nov., 1999.
- 30- **M. A. Bahie-Eldin**, Mohamed Sharrawy, Alaa Eldin Fahmy, and H. Y. Zorkta, "Large block modified input/output data encryption standard" Proceedings of the 3 rd Mechanical application conference, MTC, 2000.
- 31- Alahmad, N. El-nady, Ali Fahmy, and **M. A. Bahie-Eldin** , "A battlefield sceniario generator for command and control system", Acadmey Sadat 11-13 April, 2000.
- 32- **M. A. Bahie-Eldin**, M. Sharawy, A. Fahmy, and H. Zorkta, "Large block MIO-DES: The 128 bits block cipher", Proceedings of the IASTED International Conference SIGNAL PROCESSING AND COMMUNICATIONS Sept. 19-22, 2000, Marbella, Spain.
- 33- Alahmad, N. El-nady, A. Fahmy, and **M. A. Bahie-Eldin** , "Intelligent agents for command and control systems", Proceedings of the AMSE International Conference on MODELLING AND SIMULATION Sept. 25-27, 2000, Canaria, Spain.
- 34- Alahmad, N. El-nady, Ali Fahmy, and **M. A. Bahie-Eldin** , "Finite state machine modeling command and control systems", Al-Azhar engineering sixth international conference Sept. 1-4, 2000. pp 276-282.
- 35- Alahmad, N. El-nady, Ali Fahmy, and **M. A. Bahie-Eldin**, "The advents for command and control systems" The 35th Annual conference on statistics computer sciences and operations research, Nove. 2000.

List of graduated studies supervised:

Ph.D thesis supervision

1. "Security architecture for internet protocols", 2001.
2. "A study of spread-spectrum systems in mobile satellite communications", 2000.
3. "Artificial intelligence tools in networking of command and control systems", 2000.
4. "Secure communication for mobile networks", 2000.
5. "Analysis and design of microwave active apertures used in radar and ECM systems", 1993.

M.Sc thesis supervision

1. "Jamming of spread – spectrum systems", 1988.
 2. "Interception of spread – spectrum systems", 1988.
 3. "Application of multi-transmitter diversity in mobile digital communication", 1988.
 4. "Application of multi-transmitter diversity in mobile digital communication" 1989.
 5. "Development of an Arabic speech analysis synthesis model", 1989.
 6. "Performance analysis of modems in mobile radio communication", 1990.
 7. "Digital image segmentation", 1990.
 8. "Frequency hopping for secure communication", 1990.
 9. "Mutual coupling effects on super resolution adaptive arrays", 1993.
 10. "Interception of spread spectrum signals with unknown code", 1995.
 11. "Improvement of digital microwave radio link", 1985.
 12. "Spectrum estimation techniques for direction finding systems", 1995.
 13. "Computer data security using public key", 1995.
 14. "Digital transmission through land mobile satellite channel (MSC)", 1995.
 15. "Design and implementation of data security algorithm in military network environment", 1997.
 16. "Networking analysis of command and control model", 1997.
 17. "Interception and identification of satellite communication signals", 1998.
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