

## Curriculum Vitae



**Name:** Hussam Hesham AL-BILBISI  
**Date of Birth:** Dec. 11<sup>th</sup>, 1965  
**Place of Birth:** Amman-Jordan  
**Nationality:** Jordanian  
**Social Status:** Married (3 Children)  
**Languages:** Arabic (Mother Language)  
English (Excellent)  
Japanese (speaking and hearing Good&reading and writing Poor)

**Current Address:** Geography Department / Faculty of Art  
and /Geology Department / Faculty of Science  
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### Education-Academic Profile

April 2001 – March 2004 (PhD) Remote Sensing & GIS  
Center for Environmental Remote Sensing (CEReS)  
Graduate School of Science and Technology  
Chiba University-Japan.

Oct. 1999 – March 2001 Research Student  
Center for Environmental Remote Sensing (CEReS)  
Chiba University-Japan.

Feb. 1989 – Jan. 1992 (M.Sc) Geology (Industrial Mineralogy)  
Earth and Environmental Sciences Department.  
Yarmouk University- Jordan.

Feb.1985 – Jan.1989 (B.Sc) Earth and Environmental Sciences  
Earth and Environmental Sciences Department.  
Yarmouk University- Jordan.

## **Professional Work**

March 2012 – Date	Associate Professor of Remote Sensing & GIS Geology Department & Geography Department University of Jordan, Amman- Jordan
Sept. 2006 – Feb. 2012	Assistant Professor of Remote Sensing & GIS Geology Department & Geography Department University of Jordan, Amman- Jordan
April 2004 – Aug. 2006	Researcher & Academic Staff Center for Environmental Remote Sensing (CEReS) Chiba University-Japan.
Sept. 1996 – Sept. 1999	Teaching Assistant Earth and Environmental Sciences Department The Hashemite University-Jordan.
Sept. 1996 – Aug. 1998	Consultant Geologist and Geotechnical Engineer SALINI-ITALSTRADE J.V.Co. Karameh Dam Project-Jordan.
Aug. 1994 – Aug. 1996	Senior Geologist and Geotechnical Engineer SALINI-ITALSTRADE J.V.Co. Karameh Dam Project-Jordan.
June 1992 – July 1994	Engineering Geologist Geotechnical Engineering and Material Testing Co. Amman-Jordan.

## **Research Interests:**

### **Using GIS & Microwave and Optical Remote Sensing Data For:**

- 1- Image processing of Remotely Sensed Data.
- 2- Land Remote Sensing (Change detection & Land degradation).
- 3- Applications of Remote Sensing and GIS in Environmental Studies.
- 4- Applications of Remote Sensing and GIS in Land Degradation.

## Publication

- 1) **Hussam AL-BILBISI, (2012)**. A two decades land use/cover change detection and land degradation monitoring in central Jordan using satellite images. **Jordan Journal of Social Sciences**, Vol. 5, No. 1, pp 133-149. (Amman: The University of Jordan).
- 2) Ryutaro Tateishi, Bayaer Uriyangqai, **Hussam AL-BILBISI**, Mohamed Aboel Ghar, Javzandulam Tsend-Ayush, Toshiyuki Kobayashi, Alimujiang Kasimu, Nguyen Hoan, Adel Shalaby, Bayan Alsaaidh, Tesevengee Enkhzaya, Gegentana, Hiroshi P. Sato, **(2011)**. Production of global land cover data – GLCNMO, **International Journal of Digital Earth**, Vol. 4, No.1, pp 22-49. (London: Taylor and Francis).
- 3) Faris Jaber AL-SALLAL and **Hussam Hesham AL-BILBISI, (2011)**. A GIS and remote sensing based integrated approach to detect land use/cover dynamics in Sahab district (Central Jordan). **Abahth Al-Yarmouk "Hum.&Soc.Sci"**, Vol. 27, No. 3, pp 2345-2362. (Jordan: Yarmouk University).
- 4) **Hussam AL-BILBISI** and Zeyad MAKHAMREH, **(2010)**. A comparison of pixel-based and object-based classification approaches in arid and semi-arid areas of Dead Sea region using Landsat imagery, **DIRASAT: Human and Social Sciences**, Vol. 37, No. 3, pp 649-659. (Amman: The University of Jordan).
- 5) Rokhmatuloh, R. Tateishi, **H. AL-BILBISI**, K. Arihara, T. Kobayashi, D. Nitto, S.A Lee, K. Hirabayashi, Y.Q. Lu, C. Lu, T. Enkhzaya, B. Erdene, Ts. Javzandulam, E. Migita, N. Soliman, Y. Ouma, N.T. Hoan and K. Alimujiang, **(2010)**. Global percent tree cover mapping using regression tree method: An advantage of QuickBird images as training data. **Asian Journal of Geoinformatics**, Vol. 10, No. 2, pp 21-28. (Thailand: Asian Remote Sensing Research Information Network).
- 6) T. Ngigi, R. Tateishi, **H. AL-BILBISI**, M. Gachari and E. Waithaka, **(2009)**. Applicability of the mix-unmix classifier in percentage of tree and soil cover mapping, **International Journal of Remote Sensing**, Vol. 30, No. 14, pp 3637-3648. (London: Taylor and Francis)
- 7) **Hussam AL-BILBISI, (2009)**. Monitoring of land degradation in central Jordan using remote sensing imagery, **Proceedings (in CD-ROM) of The International Conference On Remote Sensing Technologies and Geographic Information Systems**, October 5<sup>th</sup>-7<sup>th</sup>, Tripoli-Libya.
- 8) **Hussam AL-BILBISI, (2009)**. Preprocessing of Global MODIS Satellite Imagery, **Proceedings of The Remote Sensing and GIS Applications Symposium**, April 20<sup>th</sup>, pp E36-E51, The University of Jordan, Jordan.

- 9) Ali Nouh Al-Qudah and **Hussam AL-BILBISI**, (2009). Updating The Topographic Map of Jubaiha, **Proceedings of The Remote Sensing and GIS Applications Symposium**, April 20<sup>th</sup>, pp E71-E78, The University of Jordan, Jordan.
- 10) R. Tateishi, Bayaer, M. A. Ghar, **H. AL-BILBISI** and others (2008). A New Global Land Cover Map, GLCNMO, **Proceedings of the 21 congress of the International Society for Photogrammetry and Remote Sensing (ISPRS)**, No. 21, pp 1369-1372 Beijing, China.
- 11) Ryutaro Tateishi, Javzandulam Tsend-Ayush, Mohamed Aboel Ghar, **Hussam AL-BILBISI** and Takaki Okatani, (2007). Sampling method for validation of large area land cover mapping, **Journal of the Remote Sensing Society of Japan (RSSJ)**, Vol. 27, No. 3, pp 195-204. (Tokyo, Japan, RSSJ).
- 12) Rokhmatuloh, Daisuke Nitto, **Hussam AL-BILBISI**, Kota Arihara and Ryutaro Tateishi, (2007). Estimating percent tree cover using regression tree method with very-high-resolution QuickBird images as training data, **Journal of the Remote Sensing Society of Japan (RSSJ)**, Vol. 27, No. 1, pp 1-12. (Tokyo, Japan, RSSJ).
- 13) Ahmad AL-HANBALI, **Hussam AL-BILBISI**, Akihiko, KONDOH, (2006). Monitoring the Dead Sea Area Changes Using Remote Sensing and GIS. **Journal of Japan Society of Hydrology & Water Resources**, 19(6), pp 483-490. (Tokyo, Japan, JSHW).
- 14) **Hussam AL-BILBISI** and Ryutaro Tateishi, (2006). Land degradation monitoring in arid and semi-arid area of northeastern Jordan using Landsat (TM) data, **Proceedings of the Annual Conference of the Remote Sensing Society of Japan (RSSJ)**, 40, pp 93-94, (Tokyo, Japan, RSSJ).
- 15) Ryutaro Tateishi, Javzandulam Tsend-Ayush, Mohamed Aboel Ghar and **Hussam AL-BILBISI**, (2006). Better sampling method for validation of land cover classification, **Proceedings of the Annual Conference of the Remote Sensing Society of Japan (RSSJ)**, 40, pp 55-56, (Tokyo, Japan, RSSJ).
- 16) Rokhmatuloh, **H. AL-BILBISI**, K. Arihara, T. Kobayashi. D. Nitto, B. Erdenee, K. Hirabayashi, T. A. Javzandulam, S.A. Lee, E. Migita, N. Soliman, Y. Ouma and Ryutaro Tateishi, (2006). Application of regression tree method for continental percent tree cover mapping, **Proceedings of the Annual Conference of the Remote Sensing Society of Japan (RSSJ)**, 40, pp 9-10, (Tokyo, Japan, RSSJ)
- 17) Rokhmatuloh, Nitto, D., **AL-BILBISI, H.** and Tateishi. R., (2005). Percent tree cover estimation using regression tree method: a case study of Africa with very-high resolution QuickBird images as training data, **Geoscience and Remote Sensing Symposium IEEE 2005 International, IGARSS 05**. Vol. 3, pp 2157-2160, (U.S.A).

- 18) **Hussam AL-BILBISI**, Ryutaro Tateishi, Rokhmatuloh and Kota Arihara, (2005). Pre-processing of global MODIS data from USGS, **Proceedings of the Annual Conference of the Remote Sensing Society of Japan (RSSJ)**, 39, pp 83-84, Tokushima, Japan.
- 19) Rokhmatuloh, **Hussam AL-BILBISI**, Arihara Kota, Toshiyuki Kobayashi, Ryutaro Tateishi, (2005). Application of regression tree method for estimating percent tree cover of Asia with Quickbird images as training data, **Proceedings of The 11<sup>th</sup> International Symposium on Remote Sensing**, pp 213-222, Chiba University, Chiba, Japan.
- 20) A. Al-Hanbali, **H. AL-BILBISI**, A. Kondoh, (2005). The environmental problem of the Dead Sea using remote sensing and GIS techniques, **Proceedings of The 11<sup>th</sup> International Symposium on Remote Sensing**, pp 163-168, Chiba University, Chiba, Japan.
- 21) Rokhmatuloh, Daisuke Nitto, **Hussam AL-BILBISI** and Ryutaro Tateishi, (2005). Percent tree cover estimation using regression tree method, **Proceedings (in CD-ROM) of the IGARSS 2005**, July 25-29. Seoul, Korea
- 22) **H. AL-BILBISI**, R. TATEISHI, and J. TETUKO S.S, (2004). A technique to estimate topsoil thickness in arid and semi-arid areas of north-eastern Jordan using synthetic aperture radar data, **International Journal of Remote Sensing**, Vol. 25, No. 19, pp 3873-3882. (London: Taylor and Francis)
- 23) **Hussam AL-BILBISI** and Ryutaro Tateishi, (2004). Combined use of spectral and textural features of Landsat-TM and JERS-1 SAR imagery for land use/land cover classification in northeastern Jordan, **Proceedings of Indonesian-Japan Joint Scientific Symposium**, pp 95-100, Chiba University, Chiba, Japan.
- 24) **Hussam AL-BILBISI** and Ryutaro Tateishi, (2003). Using satellite remote sensing data to detect land use/cover changes and to monitor land degradation in central Jordan, **Journal of the Japan Society of Photogrammetry and Remote Sensing (JSPRS)**, Vol. 42, No. 6, pp 4-18. (Tokyo, JSPR).
- 25) **Hussam AL-BILBISI** and Ryutaro Tateishi, (2003). Land cover classification with textural analysis using multi-temporal JERS-1 (SAR) L-band in Northeastern Jordan, **Proceedings (in CD-ROM) of Symposium on Environmental Monitoring (SIEM 2003)**, Chiba University, Chiba, Japan.
- 26) **Hussam AL-BILBISI** and Ryutaro Tateishi, (2002). Monitoring of land degradation in northeastern Jordan by remote sensing, **Proceedings (in CD-ROM) of 5<sup>th</sup> International Symposium on Land Cover /Asia**, Center for Environmental remote Sensing (CEReS), Chiba University, Chiba, Japan.

27) **Hussam AL-BILBISI** and Ryutaro Tateishi, (2002). A study on land use/cover classification using multi-temporal JERS-1 (SAR) L-band in arid and semi arid area. (A case study in northeastern Jordan), **Proceedings (in CD-ROM) of the 23<sup>rd</sup> Asian Conference on Remote Sensing**, Kathmandu, Nepal.

28) **Hussam AL-BILBISI** and Ryutaro Tateishi, (2002). A study on change detection and monitoring of land degradation in Northeastern Jordan using satellite remote sensing data, **Proceedings of the Annual Conference of the Japan Society of Photogrammetry and Remote Sensing**, pp.63-68, Tokyo, Japan.

29) Al-Akhal, H., **AL-BILBISI, H.**, and Al-Dwairi, I., (2001). Contribution to the Geochemistry, Petrography, and Tectonic Evolution of a Neoproterozoic rock suite from southwest Jordan. **Freiberger Forschungshefte**. C494: pp1-9. Germany.

30) AL-MALABEH, A. and **AL-BILBISI, H.**, (2000). Mineralogy, Geochemistry and Industrial Evaluation of the Granitic Rocks in Al-Jayoshia area, South Jordan. **Agenda Abstracts GAW-5**, Abstract band, pp 498-499, Cairo, Egypt.

31) AL-MALABEH, A. and **AL-BILBISI, H.**, (1998). Mineral Chemistry and Petrography of Pyrogenic Mineral Phases Associated with Agglutinated Pyroclastic Rocks. **Agenda GAW-5**, Abstract band, P.19, Cairo, Egypt.

### **Book**

Nikolai KHARIN, Ryutaro TATEISHI, Peter GUNIN and **Hussam AL-BILBISI**, (2004), **DEGRADATION OF THE DRYLANDS OF NORTHERN AFRICA**. Center for Environmental Remote Sensing (CEReS), Chiba University-Japan.

### **Courses Taught:**

#### **B.Sc. Courses:**

- 1- Principles of Environmental Remote Sensing.
- 2- Remote Sensing Techniques.
- 3- Geographic Information Systems (**GIS**).
- 4- General Geology (101).
- 5- Environment Science (100).

#### **M.Sc. Course:**

Advanced Geographic Information Systems (**GIS**)

#### **Ph.D. Course:**

Advanced Remote Sensing

## **Supervision of Student Research Projects**

PhD-Supervision: 3 students

MSc-Supervision: 9 students

PhD & MSc Examination Committee: 20 Theses (8 theses as a chairman)

BSc Graduation Projects Supervisor: 5 Students

## **Association Membership**

- 1- Japan Society of Photogrammetry and Remote Sensing
- 2- Remote Sensing Society of Japan
- 3- Jordanian Geologists Association

## **External Activities:**

### **Referee for the following Journals:**

- 1- International Journal of Remote Sensing.
- 2- International Journal of Digital Earth.
- 3- Asian Journal of GEOINFORMATICS.
- 4- Dirasat Journal, Jordan University.

## **Academic Awards**

- 1- Awarded a scholarship of the Japanese Government-MONBUSHO (Ministry of Education, Science, Sports and Culture) for research student at Center for Environmental Remote Sensing/Chiba University, (from 10-1999 to 3-2001).
- 2- Awarded a scholarship of the Japanese Government-MONBUSHO (Ministry of Education, Science, Sports and Culture) for PhD Degree in Remote Sensing at Graduate School of Science and Technology/Center for Environmental Remote Sensing Chiba University (from 4-2001 to 3-2004).