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**Prof. Dr. Ing. Karel Pavelka**  
*Czech Technical University in Prague, Czech Republic*

General information

**Karel Pavelka, Dr. Ing. Prof.**

Born 26 October 1962, married, 2 children

Fields of Research

geodesy, cartography and remote sensing

Education and Qualifications

University education:

1982-87: CTU Prague - Faculty of Civil Engineering, specialisation Remote Sensing, 1987 – Ing. (MSc) in geodesy and cartography

Scientific and Pedagogical Degrees:

1997 – Dr. in geodesy, cartography and remote sensing

2006 – Docent (Associated Professor), photogrammetry

2008 – Vice-dean for International Relations (Czech technical University in Prague, Faculty of Civil Engineering)

2009 – Professor (Geodesy and Cartography)

Appointments:

1987-89: Research specialist in the Remote Sensing Centre (Institute of Geodesy and Cartography)

1989: CTU Prague, Faculty of Civil Engineering, laboratory of Remote Sensing

1995: CTU Prague, Faculty of Civil Engineering, laboratory of Photogrammetry

Professional experience

Present position:

Lecturer of Photogrammetry at the Czech Technical University, Head of the Photogrammetric Laboratory, Dept. of Mapping and Cartography, CTU Prague

Membership of professional bodies

a) Fellow of the Czech Technical University of Prague, Dept. of Geomatics

b) Visiting lecturer of the Czech Agricultural University in Prague, Remote Sensing (1999-2012)

c) Member of National Committee of the Czech Association for Photogrammetry and Remote Sensing (for Photogrammetry) and National delegate CIPA for Czech Republic, National delegate ICA for Czech Republic (WG Satellite Imagery)

References from web site:

<http://lfgm.fsv.cvut.cz>

<http://www.fsv.cvut.cz>

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### Research work

#### Projects:

About 12 grants in remote sensing and photogrammetry (Czech National Grant Agency, CTU Grant Agency, Ministry of Education Grant Agency, Czech Ministry of Environment, Ministry of Transportation), co-operation with SUPP Praha (State Institute of Care of Historic Monuments), support for restoration activities

#### International projects:

1. "Global Student Village" satellite data receiving station, 1993-1997, ERIM (USA), CTU Prague
  2. Corine mapping, MARS project, ISPRA Italy, 1995-1999
  3. Photogrammetric documentation of Great Omayyad Mosque in Aleppo (Syria), UNESCO, 1999-2000
  4. Documentation of geoglyphs and petroglyphs in Nasca region, Perú, Cooperation with HTW Dresden (International project), 2004-2016, Digital photogrammetry and Remote Sensing
  5. Complex documentation of Charles Bridge by digital photogrammetry and laser scanning (2004-2006)
  6. Documentation of historical objects in Iraqi Kurdistan; the citadel Al-Qala in Erbil/Iraq by using photogrammetry, remote sensing and GIS technology, GemaArt+CTU in Prague (2006-9), photogrammetric documentation of Choli minaret in Erbil and Dalal Bridge in Zakho, documentation of old Quba-han medresa in Amedi (2010), 3D documentation a geophysical research of Nahums shrine in Alqosh (2018)
  7. Documentation of baroque sculptures in Kuks (2007), baroque vaults in Rome and Prague (2010-17) by laser scanning and IBMR
  8. Documentation of historical subsurface areas on Kosumberk castle and Dobrikov fortress by laser scanning (2007, 2008), archaeological objects in the Czech Rep. (2010-2018)
  9. Geophysical survey of archaeological and historical sites by georadar and walking magnetometer (e.g. Panenský Týnec, Teplá, Strakonice, Karlův most, relicts from Thirty Years War etc. 2009-2017)
  10. Long term plan: 3D scanning and printing, remote sensing, aerial photogrammetry and ALS, geophysical techniques as a help for non-destructing documentation in architecture and archaeology, using of hyperspectral mapping and UAV for historical object documentation and thematic mapping, member of international expeditions to Greenland, Kurdistan and Peru (2004-2016)
  11. Director of 23rd Symposium CIPA in Prague 2011 (219 participants from 30 countries)
- Publications: author of about 130 papers and publications and books in Czech and English.