



In recognition of professional standing
the Officers and Board of Directors of
the IEEE certify that

Renu Kumawat

has been elected to the grade of
Senior Member



19 November 2016

A handwritten signature in black ink, appearing to read "Barry L. Shoop".

Barry L. Shoop
President, IEEE

A handwritten signature in black ink, appearing to read "Parviz Famouri".

Parviz Famouri
Secretary, IEEE