

(54) Title of the invention : ARTIFICIAL INTELLIGENCE-BASED DATA AUTHENTICATION FOR CYBER SECURITY OF HOTEL'S PROPERTY MANAGEMENT SYSTEM USING DEEP LEARNING

<p>(51) International classification :G06N0003080000, G06N0003040000, G06Q0050120000, H04W0012060000, G06F0021550000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :  <b>1)Dr Arun Gautam</b>  Address of Applicant :Assistant professor, Jaipur School of Business, ECRC University, Jaipur, Rajasthan, India-303905 -----  <b>2)Bidisha Roy</b>  <b>3)Viveka Nand Sharma</b>  <b>4)Dr. Arvind Hans</b>  <b>5)Dr. Manoj Kumar Mahto</b>  <b>6)Prof. Subhasis Maiti</b>  <b>7)Prof Dr Manoj Srivastava</b>  <b>8)Shobhit Singh</b>  <b>9)Dr. Sarika Takhar</b>  <b>10)Ankit Prakash</b>  <b>11)Vikas Sharma</b>  Name of Applicant : NA  Address of Applicant : NA  (72)Name of Inventor :  <b>1)Dr Arun Gautam</b>  Address of Applicant :Assistant professor, Jaipur School of Business, ECRC University, Jaipur, Rajasthan, India-303905 -----  <b>2)Bidisha Roy</b>  Address of Applicant :Reseach Scholar, Hotel Management – F &amp; B Service, Assam Down Town University, Assam, India-781026 -----  <b>3)Viveka Nand Sharma</b>  Address of Applicant :HOD- Department of Hospitality and Hotel Administration, Assam Don Bosco University, Guwahati Assam India-782402 -----  <b>4)Dr. Arvind Hans</b>  Address of Applicant :Associate Professor, Faculty of Business Management &amp; Commerce, Usha Martin University, Narayansoso, Near Angara Block Office,Ranchi- Purulia Highway, Angara, Ranchi-,Jharkhand-835103 -----  <b>5)Dr. Manoj Kumar Mahto</b>  Address of Applicant :Assistant Professor, Department of CSE (AI&amp;ML), VIGNAN Institute of Technology and Science, Hyderabad, Telangana-508284 -----  <b>6)Prof. Subhasis Maiti</b>  Address of Applicant :Professor, Department of Hotel &amp; Tourism Management, NSHM Institute of Hotel &amp; Tourism Management, West Bengal 713212 -----  <b>7)Prof Dr Manoj Srivastava</b>  Address of Applicant :Principal &amp; Professor, Nims International School of Hotel Management , Jaipur –Rajasthan, 303121 -----  <b>8)Shobhit Singh</b>  Address of Applicant :Assistant Professor, Hotel Management, BhikajiCama Subharti College of Hotel Management Swami Vivekanand Subharti University, Subhartipuram, NH-58, DelhiHaridwar, Meerut Bypass Rd, Meerut, Uttar Pradesh-25000 -----  <b>9)Dr. Sarika Takhar</b>  Address of Applicant :Assistant Professor &amp; Research Coordinator, UIMS-University Institute of Media Studies, Chandigarh University, Punjab, India140413 -----  <b>10)Ankit Prakash</b>  Address of Applicant :Assistant Professor, BhikajiCama Subharti College of Hotel Management Swami Vivekanand Subharti University, Subhartipuram, NH-58, Delhi-Haridwar, Meerut Bypass Rd, Meerut, Uttar Pradesh25000 -----  <b>11)Vikas Sharma</b>  Address of Applicant :Assistant Professor, Tourism And Hotel Management, Iftm University, Lodhipur Rajput, Delhi Road, Moradabad, Uttarpradesh- India- 244102 -----</p>
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(57) Abstract :

The present invention relates to the field of a hotel management. More specifically, to the artificial intelligence-based data authentication for cyber security of hotel's property management system using deep learning. The artificial intelligence-based data authentication for cyber security of hotel's property management system using deep learning includes a communication interface for sending data over a network, a secure exchange server hosted by an intermediate business entity, a storage unit configured for storing, by the secure exchange server, data relating to a user login authentication for the user of a second business entity, a plurality of communication devices, each comprising a wireless transceiver and forming the source or destination, a non-transitory computer readable storage media, stored therein, computer program code, one or more microcontroller operatively coupled to the memory and configured to execute instructions in the computer program code, an artificial intelligence-based intrusion detection unit for real-time network traffic data analysis for determining whether an external source has altered the operation of the network, and an artificial neural network based computational module for user authentication for hotel property by using neural network.

No. of Pages : 15 No. of Claims : 6