

(54) Title of the invention : A NOVEL APPROACH FOR COMPLAINT PRIORITIZATION USING DEEP LEARNING

<p>(51) International classification :G06N 3/08</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</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 :</p> <p>1)Dr. Aparna Chaparala (Professor) Address of Applicant :Department of Computer Science & Engineering, RVR&JC College of Engineering (A), Chowdavaram Guntur, Andhra Pradesh, India., Pincode: 522019 E-mail: aparna@rvrjc.ac.in Phone+91- 9959785795 Andhra Pradesh India</p> <p>2)Dr. M. Sreelatha (Professor)</p> <p>3)Dr. M. V. P. Chandra Sekhara Rao (Professor)</p> <p>4)Dr. R. Lakshmi Tulasi (Professor)</p> <p>5)Mr. Ch. Ratna Babu (Associate Professor)</p> <p>6)Ms. K. Venkata Ramana (Associate Professor)</p> <p>7)Ms. V. S.J.R. K. Padmini Vall (Assistant Professor)</p> <p>8)Ms. M. Vasavi (Assistant Professor)</p> <p>9)Ms. K. Aravinda (Assistant Professor)</p> <p>10)Mr. M. Naveen (Assistant Professor)</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Aparna Chaparala (Professor)</p> <p>2)Dr. M. Sreelatha (Professor)</p> <p>3)Dr. M. V. P. Chandra Sekhara Rao (Professor)</p> <p>4)Dr. R. Lakshmi Tulasi (Professor)</p> <p>5)Mr. Ch. Ratna Babu (Associate Professor)</p> <p>6)Ms. K. Venkata Ramana (Associate Professor)</p> <p>7)Ms. V. S.J.R. K. Padmini Vall (Assistant Professor)</p> <p>8)Ms. M. Vasavi (Assistant Professor)</p> <p>9)Ms. K. Aravinda (Assistant Professor)</p> <p>10)Mr. M. Naveen (Assistant Professor)</p>
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(57) Abstract :

ABSTRACT In any service sector organization, proper complaint handling is a primary requirement to be accountable to the users. Complaints provide valuable stimuli to review the companyTMs performance. Organizations like banks, Cellular telephone services, Internet service providers, e-commerce sites, municipal corporations etc., receive hundreds of complaints in various forms every day. Among the complaints/grievances few are to be addressed immediately, while others can be resolved in a month. For example, issues related to broken or downed power lines, spreading of a disease, sewage in drinking water should be resolved immediately, while faulty street lights, damaged drainage or roads, correction in a birth certificate issued can be resolved within a few weeks. Our proposed invention is to prioritize complaints depending on the seriousness of grievance. Users may report their grievances using a dedicated form or email or handwritten document or typed document. If the grievance is in the form of a typed/handwritten document, it can be scanned to create a digital copy. The occurrence percentage of keywords (that indicate urgency) will be determined by word spotting. This measure determines the priority level of the handwritten /typed complaint. If the complaint is recorded using an email or a form, content can be extracted by using a content extraction component. An organization may offer various services to its clients. Hence, complaints may pertain to any of these services. Categorization component finds the category of recorded grievance from a set of predefined categories. Depending on the seriousness of the complaint, complaints can be prioritized. Complaints that are to be resolved immediately can be identified.

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