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(51) International classification	:G06Q0010063700, G06Q0010040000, G06Q0010063000, G06Q0010020000, H04W0072020000	(71) <b>Name of Applicant :</b> <b>1)NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b> Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)RAJEEV KUMAR</b>
(33) Name of priority country	:NA	<b>2)Dr. AMBA MISHRA</b>
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(57) Abstract :

The invention discloses a computer system for optimized real-time flight scheduling (101), comprising an AI-driven scheduling engine (102), a predictive disruption management module (103), a resource allocation manager (104), a passenger communication interface (105), and a sustainability optimizer (106). The system dynamically integrates real-time data from multiple sources to forecast disruptions, reallocate resources, update passengers instantly, and minimize environmental impact. By combining artificial intelligence, predictive analytics, and sustainability features, the invention provides an intelligent, scalable, and efficient platform for next-generation airline operations.

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