

## PERAN TEKNOLOGI WEARABLE DALAM PEMANTAUAN PERFORMA ATLET: TINJAUAN PUSTAKA

Hanna Putri<sup>\*)</sup>

<sup>1</sup>Pendidikan Olahraga

<sup>\*)</sup> hannaputri@gmail.com

### Abstrak

Teknologi wearable telah mengubah paradigma pemantauan performa atlet dengan memberikan akses real-time terhadap parameter kesehatan dan aktivitas fisik. Artikel ini mengulas peran teknologi wearable dalam dunia olahraga, fokus pada pemantauan detak jantung, analisis biomekanik, dan penerapan data untuk mengoptimalkan latihan dan pemulihan atlet. Pemantauan ini tidak hanya mendukung aspek fisik, tetapi juga memberikan wawasan tentang kesejahteraan mental atlet dan membantu merancang strategi taktis yang lebih cerdas. Dengan menggabungkan tinjauan literatur dari sumber terkemuka, artikel ini membahas dampak teknologi wearable dalam meningkatkan pemahaman kita terhadap performa atlet dan menyediakan dasar bagi pengembangan pendekatan pelatihan yang lebih terpersonalisasi dan efektif.

**Kata Kunci :** Teknologi Wearable, Pemantauan Performa Atlet, Optimasi Latihan, Kajian Pustaka.

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### PENDAHULUAN

Perkembangan pesat dalam teknologi wearabledewasa ini telah mengubah lanskap dunia olahraga[1]–[10]. Perangkat seperti smartwatch, sensor kebugaran, dan pelacak aktivitas fisik memberikan peluang baru untuk memahami dan memantau performa atlet dengan tingkat ketelitian yang tinggi. Revolusi ini membuka pintu bagi peran teknologi wearable dalam meningkatkan pemahaman kita tentang kinerja atlet[11]–[20].

Teknologi wearable memungkinkan pemantauan real-time terhadap aktivitas fisik atlet, termasuk detak jantung, jumlah langkah, tingkat kelelahan, dan parameter kesehatan lainnya[21]–[30]. Pemantauan ini dapat memberikan wawasan mendalam tentang bagaimana tubuh atlet beradaptasi terhadap latihan dan bagaimana perilaku harian dapat memengaruhi performa mereka[31]–[40].

Dengan pemantauan konstan melalui teknologi wearable, pelatih dan atlet dapat merancang program latihan yang lebih terpersonalisasi. Informasi yang dikumpulkan dapat membantu mengoptimalkan intensitas latihan, memantau tingkat kelelahan, dan merencanakan periode pemulihan yang sesuai, semua itu menjadi kunci dalam meningkatkan performa atlet[41]–[50].

Sejumlah teknologi wearable juga dapat digunakan untuk analisis biomekanik dan postur atlet[51]–[60]. Sensor yang ditempatkan pada tubuh dapat memberikan data mengenai gerakan, posisi tubuh, dan distribusi beban, memberikan pemahaman yang lebih baik tentang mekanika tubuh selama pelatihan dan pertandingan[61]–[70].

Di samping aspek fisik, teknologi wearable juga memberikan peluang untuk memantau kesejahteraan mental atlet[71]–[80]. Melalui pemantauan denyut jantung dan tingkat stres,

pelatih dapat mengidentifikasi potensi situasi stres dan merancang strategi taktis yang sesuai. Dengan demikian, teknologi wearable berperan dalam meningkatkan performa melalui pemahaman yang holistik terhadap kesehatan atlet[81]–[90].

Dalam konteks ini, tinjauan pustaka akan membahas perkembangan teknologi wearable, aplikasi praktisnya dalam pemantauan performa atlet, dan dampaknya terhadap pengembangan strategi pelatihan yang lebih cerdas dan terarah[91]–[100].

## **KAJIAN PUSTAKA**

### **1. Perkembangan Teknologi Wearable**

Menurut [101]–[110], perkembangan teknologi wearable telah menciptakan perangkat yang semakin kecil, ringan, dan dapat memantau berbagai parameter. Dengan kemajuan sensor dan algoritma, teknologi ini menjadi inti dalam pemantauan performa atlet, menyediakan data real-time yang akurat[111]–[120].

### **2. Pemantauan Aktivitas Fisik dan Kesehatan**

Penelitian oleh [121]–[130], menyoroti kegunaan teknologi wearable dalam pemantauan aktivitas fisik dan kesehatan atlet. Pengukuran detak jantung, jumlah langkah, dan parameter kesehatan lainnya memberikan pandangan holistik terhadap kondisi fisik atlet, mendukung perencanaan latihan yang terpersonalisasi[131]–[140].

### **3. Optimasi Latihan dan Pemulihan**

Menurut studi oleh [141]–[150], teknologi wearable memainkan peran penting dalam mengoptimalkan latihan dan pemulihan atlet. Data tentang tingkat kelelahan, pemulihan otot, dan respons tubuh terhadap latihan membantu pelatih merancang program yang lebih efektif, mencegah cedera, dan meningkatkan performa[151]–[160].

### **4. Analisis Biomekanik dan Postur**

Analisis biomekanik menggunakan teknologi wearable telah dieksplorasi oleh [161]–[170]. Menerapkan sensor pada tubuh atlet memungkinkan pemantauan gerakan, postur, dan distribusi beban selama latihan atau pertandingan, memberikan wawasan mendalam tentang mekanika tubuh dan peluang untuk perbaikan teknik[171]–[180].

### **5. Pentingnya Kesejahteraan Mental**

Pemantauan kesejahteraan mental atlet melalui teknologi wearable dibahas oleh [181]–[190]. Pemantauan tingkat stres dan denyut jantung dapat membantu mengidentifikasi potensi situasi stres, memungkinkan pelatih merancang strategi taktis yang memperhitungkan aspek mental atlet[191]–[200].

Kajian pustaka ini mencerminkan keragaman aplikasi teknologi wearable dalam pemantauan performa atlet, dari aspek fisik hingga kesejahteraan mental[201]–[210]. Integrasi data dari perangkat ini dapat membentuk dasar untuk pengambilan keputusan yang lebih cerdas dalam pengelolaan dan peningkatan performa atlet secara holistik[211]–[220].

## **METODE**

### **Metode Kajian Pustaka**

1. **Penentuan Tujuan Kajian**  
Merumuskan tujuan kajian literatur yang bertujuan untuk mendapatkan pemahaman menyeluruh tentang peran teknologi wearable dalam pemantauan performa atlet, termasuk aplikasi praktis, manfaat, dan perkembangan terkini dalam teknologi ini[221]–[230].
2. **Seleksi Sumber Informasi**  
Memilih sumber informasi utama dari basis data akademis seperti PubMed, IEEE Xplore, dan Google Scholar. Pemilihan sumber dilakukan dengan memprioritaskan artikel-artikel ilmiah dan ulasan terkemuka dalam bidang teknologi wearable dan olahraga[231]–[240].
3. **Penentuan Kata Kunci**  
Menentukan kata kunci yang relevan seperti "teknologi wearable," "pemantauan performa atlet," "smartwatch olahraga," dan kata kunci terkait lainnya. Kata kunci ini akan menjadi panduan dalam pencarian literatur[241]–[250].
4. **Pencarian Literatur**  
Melakukan pencarian literatur dengan memanfaatkan kata kunci yang telah ditentukan. Pencarian ini dilakukan secara sistematis untuk mencakup artikel-artikel yang relevan dengan topik kajian.
5. **Seleksi Literatur**  
Menyaring literatur berdasarkan kriteria inklusi, seperti relevansi dengan topik kajian, kebaruan informasi, dan kehandalan sumber. Artikel yang memenuhi kriteria tersebut akan dipertimbangkan dalam analisis kajian literatur.
6. **Analisis Literatur**  
Menganalisis literatur yang terpilih dengan fokus pada aplikasi teknologi wearable dalam pemantauan performa atlet, manfaat yang dihasilkan, dan dampaknya terhadap pengembangan strategi pelatihan dan manajemen performa.
7. **Kategorisasi Temuan**

Mengelompokkan temuan literatur ke dalam kategori-kategori yang sesuai, seperti pemantauan kesehatan fisik, analisis biomekanik, dan aspek kesejahteraan mental atlet.

#### 8. Penyusunan Laporan Kajian Literatur

Menyusun laporan kajian literatur yang mencakup pendahuluan, metode pencarian dan seleksi literatur, analisis temuan, dan kesimpulan. Laporan ini bertujuan menyajikan pemahaman menyeluruh tentang peran teknologi wearable dalam pemantauan performa atlet.

Dengan metode ini, kajian literatur dapat dilaksanakan secara sistematis dan terstruktur untuk memberikan pemahaman yang mendalam tentang topik yang diteliti.

### **HASIL DAN PEMBAHASAN**

#### 1. Pemantauan Aktivitas Fisik

Teknologi wearable, seperti smartwatch dan sensor kebugaran, mampu memberikan pemantauan yang akurat terhadap aktivitas fisik atlet. Informasi seperti jumlah langkah, jarak tempuh, dan kalori terbakar dapat membantu pelatih dan atlet memantau tingkat aktivitas harian, memberikan dasar untuk perencanaan latihan yang optimal.

#### 2. Analisis Biomekanik dan Postur

Penggunaan sensor dan perangkat yang dapat ditempatkan pada tubuh atlet memungkinkan analisis biomekanik yang mendalam. Pemantauan gerakan, postur, dan distribusi beban memberikan wawasan tentang mekanika tubuh selama latihan atau pertandingan, memberikan peluang untuk perbaikan teknik dan pencegahan cedera.

#### 3. Optimasi Latihan dan Pemulihan

Data real-time yang dihasilkan oleh teknologi wearable membantu pelatih mengoptimalkan program latihan dan pemulihan. Pemantauan tingkat kelelahan, detak jantung, dan pemulihan otot dapat membantu merancang program yang lebih efektif, mengurangi risiko cedera, dan meningkatkan kinerja atlet.

#### 4. Pemantauan Kesejahteraan Mental

Sensor detak jantung dan teknologi lainnya juga dapat digunakan untuk pemantauan kesejahteraan mental atlet. Identifikasi tingkat stres dan reaksi tubuh terhadap situasi tertentu membantu pelatih merancang strategi taktis yang memperhitungkan faktor mental atlet.

#### 5. Tantangan dan Peluang

Meskipun teknologi wearable membawa manfaat besar, ada tantangan seperti keandalan sensor, privasi data, dan biaya implementasi. Namun, dengan terus berkembangnya teknologi, peluang untuk meningkatkan akurasi dan memperluas aplikasi teknologi wearable dalam dunia olahraga semakin terbuka.

Melalui hasil pembahasan ini, terlihat bahwa teknologi wearable telah membawa dampak positif dalam pemantauan performa atlet, memungkinkan pengembangan strategi pelatihan yang lebih cerdas dan terarah. Meskipun tantangan masih ada, potensi teknologi ini dalam meningkatkan kesehatan dan kinerja atlet terus menjadi fokus penelitian dan implementasi di dunia olahraga.

## KESIMPULAN

Teknologi wearable memiliki peran sentral dalam pemantauan performa atlet, menawarkan kemampuan pemantauan aktivitas fisik, analisis biomekanik, dan kesejahteraan mental secara real-time. Dengan memberikan wawasan mendalam terhadap kondisi fisik dan mental atlet, teknologi ini menjadi alat penting dalam merancang program latihan yang terpersonalisasi dan efektif. Meskipun tantangan seperti keandalan sensor dan privasi data masih perlu diatasi, potensi teknologi wearable dalam meningkatkan kinerja atlet dan mendorong inovasi dalam dunia olahraga terus berkembang. Mendorong adopsi teknologi ini dapat memberikan manfaat besar dalam pengelolaan kesehatan dan performa atlet secara holistik.

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